43000-1A

soya blueboook

an ASA publication

80

BEST AVAILABLE COPY

BEST AVAILABLE COPY

Lucas Meyer

The Lecithin people

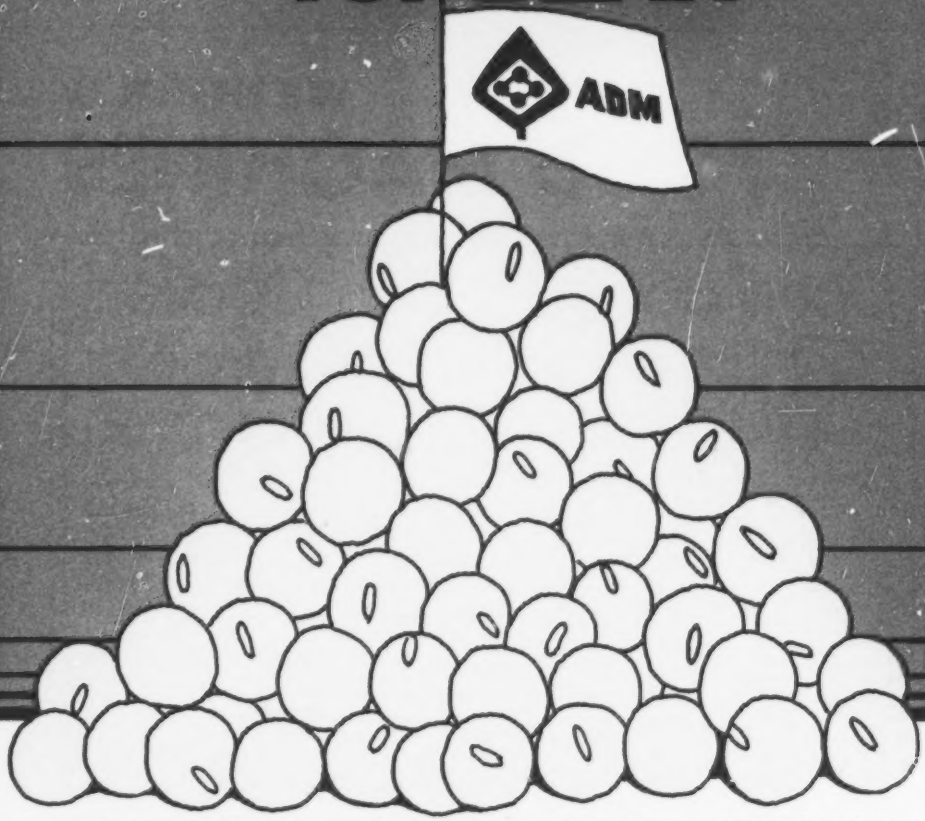
We are
a service company to
the soya industry.
Over 30.000 tons
of soya bean lecithin
and soya fatty acids
are yearly being marketed
by us worldwide.

LUCAS MEYER

Ausschläger Elbdeich 62. 2000 Hamburg 28. Tel. 78 17 01. Telex 2 163 220 myer d

EDELSOJA GmbH Hamburg. EFRATAS LECITHOS S.p.r.l. p.v.b.a. Brussel. LECITHOS FRANCE S.A. Paris. LECITHOS S.r.l. Vigonza. LECITHOS b.v. Den Haag.
LECITHOS IBERICA S.A. Barcelona. LECITHOS (U.K.) Ltd. Chester. LUCAS MEYER (America) Inc. Decatur Illinois.

TOP BEAN



As the leading domestic processor of soybeans, ADM sits high atop the pile. How did we get there? With over thirty years of hard work, help from you in the industry, and everlasting confidence in the unlimited potential of the soybean.

Now, ADM is acknowledged around the world as the leader in the edible soy processing field and the largest producer of upgraded soy protein products. Such as TVP®, the original textured vegetable protein which began the revolution of soy products in foods. And our most recent development, ARDEX® 700 soy protein concentrate, an outgrowth of ADM's soy process engineering group.

The nation's and the world's largest variety of soybean oil, lecithin, soybean meal, and upgraded soy protein products comes from us. ADM. With plants in places like Decatur, Galesburg, and Granite City, Illinois; North Kansas City, Missouri; Fredonia, Kansas; Mankato, and Red Wing, Minnesota; Fremont and Lincoln, Nebraska; Kershaw, South Carolina; Maassluis, Holland; Campinas, Brazil; and Manchester, England, we supply the markets of the world. But only by working hand-in-hand with the American farmer and others in the industry, do we stay on top. Together, we keep the revolution going.

ADM
ARCHER DANIELS MIDLAND COMPANY
World Headquarters—Decatur, Illinois 62525
Telephone 217-424-5422 Telex 250121

Where the people who feed the world buy their groceries.

BEST AVAILABLE COPY

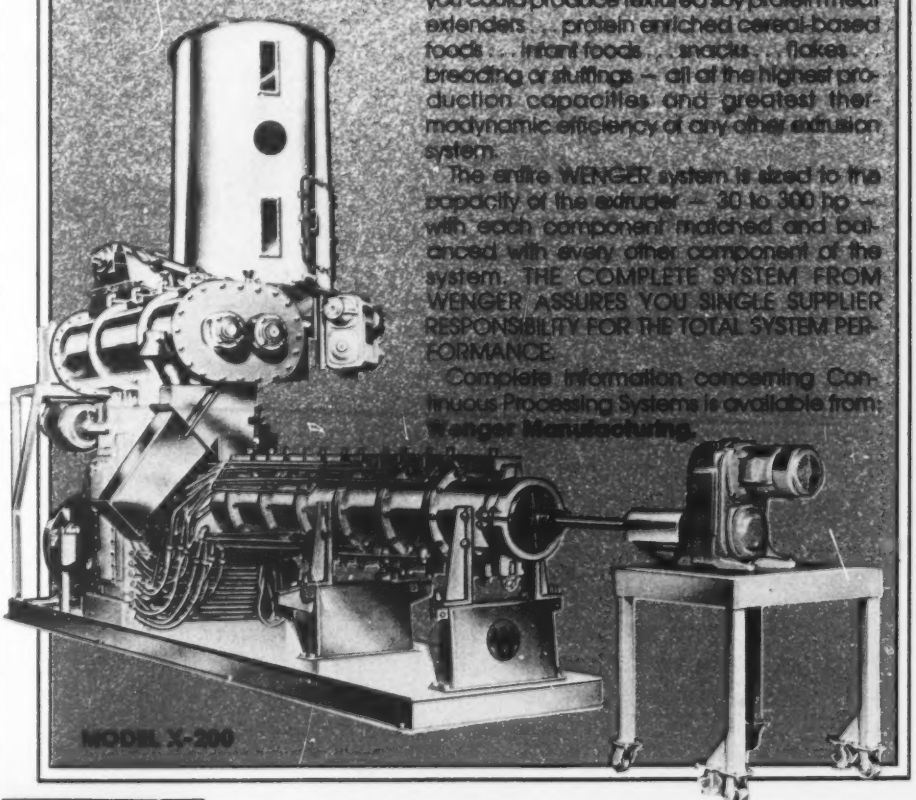
WENGER'S
FOOD MACHINES

Continuous Extrusion Cookers Can produce a whole range of profitable and industry proven Soy Products

Think about it: with one Wenger extruder you could produce textured soy protein meat extenders . . . protein enriched cereal-based foods . . . infant foods . . . snacks . . . flakes . . . breading or stuffings – all at the highest production capacities and greatest thermodynamic efficiency of any other extrusion system.

The entire WENGER system is sized to the capacity of the extruder – 30 to 300 hp – with each component matched and balanced with every other component of the system. THE COMPLETE SYSTEM FROM WENGER ASSURES YOU SINGLE SUPPLIER RESPONSIBILITY FOR THE TOTAL SYSTEM PERFORMANCE.

Complete information concerning Continuous Processing Systems is available from: **Wenger Manufacturing.**



Wenger

Wenger Manufacturing - *Plant and General Offices*, Sabetha, Kansas 66534 tel. 913/284-2133

Wenger International, Inc. - *Export Division*, One Crown Center, Suite 510, 2400 Pershing Road, Kansas City, Missouri 64108, tel. 816/221-5084, Cable WENGERKCS, telex 42387

Wenger International - *Subsidiary Office*, Franklin Rooseveltplaats N. 12, Antwerpen, Belgium, tel. (31) 327005, telex 31413

ORGANIZATIONS:
7 American Soybean Association
10 American Soybean Association Market Development Foundation
10 American Soybean Association Research Foundation
10 Food Protein Council
11 National Soybean Processors Association
11 Ontario Soya-Bean Growers Marketing Board
12 State Research Experiment Stations
15 United States Department of Agriculture

SOY PRODUCT DIRECTORY
19 U.S. Processcrs
27 Non-U.S. Processors
41 Soy Oil Refiners
45 Soy Food Manufacturers & Handlers
57 Industrial Product Manufacturers

BUYER'S GUIDE
59 Equipment & Supplies
93 Services
115 Soy Product Processing Equipment & Supplies

SOYBEAN STATISTICS
131 Tables
168 United States Standards for Soybeans
170 Glossary of Soybean Terms

INDEXES
173 Category Listings
175 Index of Tables
176 Directory, Alphabetical Company Listings
181 Buyer's Guide, Alphabetical Company Listings
186 Index to Advertisers

Soya bluebook is published each June. Listings are provided to qualified members of the soybean industry. Every effort has been made to present a publication free of errors and/or omissions. In the event that errors or omissions occur, the editor of Soya bluebook requests communications to that effect so that corrections can be made in future editions.

Additional copies of Soya bluebook are $25. Contact Circulation & Sales Department.

Postmaster: Address correction requested. Return postage guaranteed. Soybean Digest, P.O. Box 27300, St. Louis, Mo 63141.

Copyright® 1980 by the American Soybean Association.

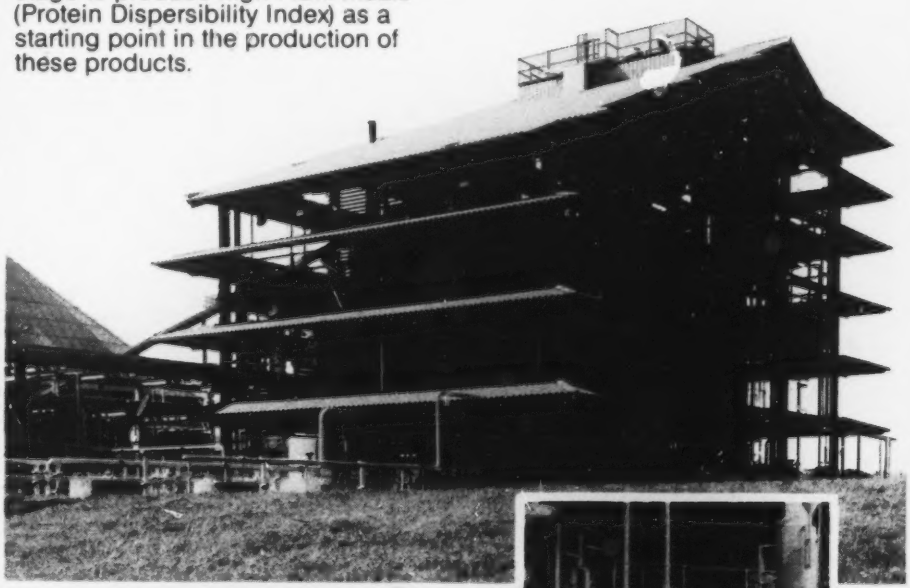
Maximum yield with Rosedowns solvent extraction plant

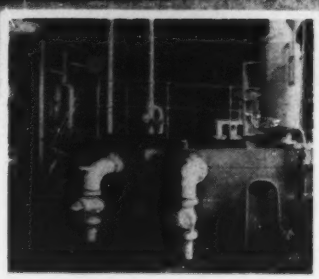
In 24 countries throughout the world Rosedowns Continuous Solvent Extraction plant is in operation, producing the highest quality products of extracted oil and meal from at least 17 different oilseeds.

We manufacture extraction plants capable of producing meals with oil contents consistently below 1% and with certain materials as low as 0.2%. To cater for the rapid growth in the edible soya protein industry we can incorporate a variable pressure/temperature desolventising stage to produce high P.D.I. meals (Protein Dispersibility Index) as a starting point in the production of these products.

Our plants include the 'Rotocel' Extractor which is manufactured under licence from the Chemical Plants Division of Dravo Corporation and is capable of capacities in excess of 3,000 tonnes per day in a SINGLE unit.

Rosedowns oil extraction and processing plant can be found in more than 100 countries and our experience is at your disposal for either individual units or complete oilseed processing complexes.





SIMON-ROSEDOWNS

ROSEDOWNS

Simon-Rosedowns Limited, Cannon Street, Hull, England.
Tel: 0482 29864, Telex: 52226, Cables: Rosedowns Hull

organizations

American Soybean Association

Founded 1920 **Organized** 1925 **Incorporated** February 28, 1946

Home Office—P.O. Box 27300, St. Louis, MO 63141. Ph. 314-432-1600.
Telex 447297 USBEANS/STL.
Washington Office—1575 Eye Street, NW, Suite 360, Washington, DC 20036.
Ph. 202-789-1677.

OFFICERS

CHAIRMAN OF THE BOARD—Merlyn Groot, Manson, IA 50563
PRESIDENT—Allan Aves, Kirkland, IL 60146
1st VICE PRESIDENT—Frank Ray, Baker, FL 32531
VICE PRESIDENTS—Herb Halvorson, Hanska, MN 56041
Hugh Wilson, Washington Court House, OH 43160
Charles Hamon, Valley Falls, KS 66088
B. B. Spratling, Jr., Union Springs, AL 36089
SECRETARY — ASSISTANT TREASURER—William Biddle, Remington, IN 47977
TREASURER—Richard Hussey, Tunica, MS 38676

STAFF

CHIEF EXECUTIVE OFFICER—Dr. Kenneth Bader
EXECUTIVE DIRECTOR--Jeffrey Gain
DIRECTOR OF BUSINESS & FINANCE—Charles Koopmann
DIRECTOR OF CORPORATE RELATIONS—Tom Lane
DIRECTOR OF INFORMATION & EDUCATION—Steven Drake
DIRECTOR OF MARKET DEVELOPMENT—Dennis Blankenship
DIRECTOR OF MEMBERSHIP & FIELD SERVICES—Don Williams
DIRECTOR OF RESEARCH—Dr. Keith Smith
WASHINGTON PROGRAM MANAGER—John Baize
REGIONAL MANAGERS—Roger Atkins, Anthony Ballmann, Alek Cerne, Jerry Kennedy, Doug Leith, John Miller, Emory Murphy, Darwyn Nelson, Steve Pedersen, Lester Rhodes, Bill Tiberend, Ted Tucker, Mary White.

DIRECTORS

Alabama—B. B. Spratling Jr.
Arkansas—Joe Kirksey, Nick Rose, Vernon Scott
Florida—Frank Ray
Georgia—Paul Newton
Illinois—Allan Aves, Carl Marriott, Bill Mathena
Indiana—William Biddle, Paul McKinnis, John A. Stewart
Iowa—Richard Elijah, Merlyn Groot, Willard Latham
Kansas—Charles Hamon
Kentucky—Herschel O'Nan (1/1/80 to 8/80) James Esche (8/80 to 1982)
Louisiana—Patrick J. Quinn, Ray Schexnayder
Michigan—William Dodds
Mid-Atlantic—Preston Ware

Minnesota—Herb Halvorson, Vern Runholt, Gordon Martin
Mississippi—Richard Hussey, Ralph Weems Jr.
Missouri—Maurice L. Johnson, Ellsworth Stewart, Jack H. Tipton
Nebraska—Eugene Glock
North Carolina—F. H. (Ted) Bailey
Ohio—Gary J. Lee, James Needs, Hugh Wilson
Oklahoma—Jay Lackey Jr.
South Carolina—Dave Wiggins
Tennessee—M. C. Bevis
Texas—Robert Horn
Virginia—Winter Cullen III
Wisconsin—Vince Drendel
Canada—Peter Epp
Mexico—Julio Hernandez

ACTIVITIES

The American Soybean Association is a national nonprofit, volunteer, single commodity organization of soybean producers organized to assure the opportunity of a profitable soybean industry.

To accomplish the above, ASA:

1. Conducts and supports programs for market development of soybeans and soybean products.
2. Conducts and supports effective programs of research and education.
3. Monitors governmental programs that are of vital concern to soybean producers.
4. Develops information programs of public affairs activities which identify and promote ASA.

OBJECTIVES

1. To be the worldwide spokesman for all U.S. soybean producers.
2. To make the soybean industry a profitable venture in the U.S.
3. To maintain a national association of soybean growers to act as an umbrella organization for all affiliates.
4. To assure a free world market for soybeans, and therefore a continued increase in demand for U.S. soybeans.
5. To assure adequate support for soybean research.
6. To inform U.S. soybean producers of all available production and marketing information.

GOVERNMENT. The American Soybean Association staff and officers maintain constant contact with all branches of government at the national level in order to further the objectives of soybean producers. ASA encourages legislation and governmental actions that will benefit soybeans and result in an orderly growth of the crop and industry and discourages legislation or actions that will prove harmful or restrictive to the crop, in cooperation with state soybean associations.

ASA works with the U.S. Department of Agriculture and the industry in efforts to expand markets for U.S. soybeans and soybean products at home and abroad; it strives to maintain reasonable support levels without inducing excessive acreage and over-production; it constantly presents to Congress the need for adequate government research in the production, marketing and utilization of the crop.

HOLDS ANNUAL CONFERENCES with the nation's outstanding soybean authorities as speakers. Its resolutions adopted there serve as guides for the association during the year.

ANSWERS YOUR QUESTIONS. The executive office of the American Soybean Association at St. Louis, MO, serves as a clearinghouse of information for the industry, answering thousands of inquiries that come throughout the year.

PUBLICATION

The American Soybean Association publishes four publications on a regular basis:

The SOYBEAN DIGEST is the only production/management magazine in the world produced for soybean growers. Issued nine times a year, the SOYBEAN DIGEST is packed with information on improved management skills and production techniques that help increase soybean grower profits.

The SOYABEAN UPDATE is provided exclusively to ASA members 50 times a year to provide growers with timely information to help them make soybean marketing decisions.

The SOYA BLUEBOOK, published each June, is an annual directory of the soybean industry. The BLUEBOOK is available to anyone at a subscription price of $25 per book.

SOYWORLD provides a quarterly look at market development, research and government relations programs for soybean producers as well as articles on issues facing soybean farmers. SOYWORLD is sent free to soybean growers and other persons interested in the soybean industry.

MEMBERSHIP

ACTIVE PRODUCER MEMBERSHIP in the American Soybean Association is open to only U.S. producers of soybeans whether as owner, manager or operator. Annual dues are set by state associations and entitle the producer to receive SOYBEAN DIGEST and SOYBEAN UPDATE. Active members have full voting rights.

ASSOCIATE MEMBERSHIP in ASA is open to only a U.S. business organization, corporation, partnership, agency or person interested in the soybean industry. Associate members carry all membership privileges except the right to vote and may receive SOYBEAN DIGEST and SOYBEAN UPDATE. Associate membership dues levels are set by each state association.

FOREIGN CONTRIBUTING MEMBERSHIP is open to only an overseas business organization, corporation, partnership, agency or person interested in the soybean industry. Membership dues are U.S. $65 per year and entitle the member to all privileges except voting. Publications include SOYBEAN DIGEST, SOYBEAN UPDATE and SOYA BLUEBOOK. All are highest priority mail as a special service.

Membership information may be obtained by writing to: Membership Secretary, 777 Craig Rd., P.O. Box 27300, St. Louis, MO, U.S.A. 63141. Ph. 314-432-1600. Telex 447297.

AFFILIATED ASSOCIATIONS

ASA now has 24 affiliated state associations, a rapid development since the first state association was organized 14 years ago.

MARKET DEVELOPMENT PROGRAM

In 1956, the American Soybean Association signed its first contract for a market development project in Japan, with the U.S. Department of Agriculture's Foreign Agricultural Service.

This first market development project for U.S. soybeans and soybean products in any foreign country served as the basis for increased activities in other parts of the world.

ASA has been dramatically expanding market development efforts for soy products. Four highly successful regional soy protein conferences have been conducted—in Latin America, the United Kingdom, Eastern Europe and the USSR—to follow up the 1973 World Soy Protein Conference in Munich. Another highly successful regional conference for Asia was held in Singapore in January 1978.

The highly successful soy oil identification campaign, which increased the use of soy oil in Italy, has triggered interest in other countries of Europe. A program is presently being conducted in Germany, and there is interest in France where an office has been opened. Identified soy oil campaigns have also been conducted in Japan and work is being done with oil processors in other countries to help them make sure they are producing a top grade soy oil product.

Since opening the Eastern European office in Vienna in 1974, ASA has gradually expanded market development activities in the original four Eastern European countries. Although the emphasis here has been on livestock feeding, market development activities have been developed in the soy oil and soy protein areas. Activities have already begun in three additional countries, East Germany, Bulgaria and Romania.

Activities have been initiated in countries of the Middle East, and a director for that area has been added who is presently officed in Madrid, Spain. In addition, some of the nations of Africa are under study to determine what countries offer the greatest possibilities for market development activities and for what particular type of activity.

An expanded program in the Latin American countries of the Caribbean and Central South America has increased the countries being served by the market development activities in this area. Following up the Latin American Soy Protein Conference, a mass feeding technician was sent to several selected Latin American countries to provide seminars especially on school lunch programs. With the addition of a livestock technician to the Latin American staff, the soybean meal program for livestock feeding in this area has been greatly expanded.

ASA recognized the expanding markets in Asia and last year opened in Seoul, Korea and Singapore. These offices will provide an expanded program thrust to a growing area.

With the inroads made by competing oils in the U.S., a technical service program for soy oil was started by ASA. The soy oil program is aimed at creating an awareness of the premium quality of soy oil in the minds of the consumer—and to create the quality image for soy oil it deserves.

Expansion of the market development staff overseas to service the expanding activities has been made possible by increased support of programs by growers in the past years. It will become increasingly necessary to look to this support to fund some of the new programs. The programs are financed by grower investments, the Foreign Agricultural Service of USDA and third party cooperators.

This support by growers is in several stages in various states. Twenty-one states have legislated checkoffs: Alabama, Arkansas, Florida, Georgia, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia. Several other states are preparing to vote on checkoff legislation.

ASA ASIAN DIRECTOR
Gil Griffis, Akasaka Tokyo Bldg., 11th Fl. 2-14-3 Nagatacho, Chiyoda-Ku, Tokyo, Japan-100. Telex: 781-28638 (USBEANS); Ph. 593-2501/2504.

ASA COUNTRY DIRECTOR, TAIWAN
Dr. Steve Chen, Rm. 603, Kwang-Wu Bldg., 386 12 Tun Hua South Rd., Taipei, Taiwan; Telex: 785-11141 (TRAOCEAN); Ph. 7815880.

ASA COUNTRY DIRECTOR, KOREA
Kyung Lee, 63 Eul Ji Ro 1-KA, Chuong-Ku, Seoul, Korea; Telex: 787-25823 (SOLATO K25823); Ph. 778-911, 72-2601 (ex) 4386.

ASA SOUTHEAST ASIAN DIRECTOR
Don H. Bushman, Liat Towers-15th Floor, Rm. 1501, Orchard Rd., Singapore 0923; Telex: 786-25706 (TRIWIT RS25706); Ph. 7376233 & 7376561.

ASA WEST EUROPEAN DIRECTOR
Joe Zak, Centre International Rogier, Passage International No. 6, Rm. 2501, Boite 521, 1000 Brussels, Belgium; Telex: 846-26128 (AMSOYA B); Ph. 02-217-20-75 & 02-217-96-61.

ASA NORTH EUROPEAN DIRECTOR
Dr. Karl W. Fangauf, Pelzerstrasse 13, 2 Hamburg 1, West Germany; Telex: 841-2163420 (SOYA D); Ph. 040-330516 & 040-336783.

ASA COUNTRY DIRECTOR, FRANCE
Michel Rabilloud, 24, Rue Denfert-Rochereau (1eretage), 92100-Boulogne S/Seine, France. Ph. 825-84-67.

ASA EAST EUROPEAN DIRECTOR
Dr. J. D. Shroder, Gatterburggasse 18/2/3, A-1190 Vienna, Austria; Telex: 847-135132 (AMSOY A); Ph. 37-41-18-37-41-19.

ASA LATIN AMERICAN REGIONAL DIRECTOR
Gil Harrison, Rio Sena No. 26-201. Col. Cuahutemoc, Mexico 5, D.F.; Telex: 017-77371 (ANIAME); Ph. 905-535-0659 & 905-566-9490.

ASA MID-EAST & IBERIAN PENINSULA DIRECTOR
Ed Quinones, Piquer, 7, 4° Iz., Madrid 33, Spain. Telex: 831-46008 (SOYA E); Ph. 202-91-42-47-32-50-94.

American Soybean Association Market Development Foundation

President—Jud Seeley, Donnellson, IA 52625
Vice President—Arthur Goeken, Delevan, IL 61734
Secretary—James Ferguson, Calhoun City, MS 38916
Treasurer—Mike Willette, Delavan, MN 56023

Bill Dixon, Browns, AL 36724
Andrew Shisenhunt, Bradley, AR 71826
Hays Sullivan, Burdette, AR 72321
A. L. Kent, Jay, FL 32565
William M. Prichard, Louisville, GA 30434
Clarence Warters, Tuscola, IL 61953
Lloyd Wilken, Pontiac, IL 61764
Willard Latham, Alexander, IA 50420
Charles Sutcliffe, Mason City, IA 50401
Stan Compton, Larned, KS 67550
James P. Esche, Henderson, KY 42420
Harry Henderson, Pioneer, LA 71266
Donald M. Korte, Canton, MI 48187
John Evans, Montevideo, MN 56265
Vernon Runholt, Marshall, MN 56258
Alex Ramsay, Jr., Mt. Olive, MS 39119
J. Tol Thomas, III, Cruger, MS 38924
Joe Pepper, Weston, MO 64098
Carl Gangwish, Shelton, NE 68876
Andrew Winslow, Hertford, NC 27944
Raymond Schoen, Ft. Smith, AR 72901
H. M. Fralix, Lodge, SC 29082
Bobby Willis, Hillsboro, TN 37342
Jack Witten, Kress, TX 79052
Merle N. McCann, Carson, VA 23830

Non-voting Members

Allan Aves, Kirkland, IL 60146
Herb Halvorson, Hanska, MN 56041
Richard Hussey, Tunica, MS 38676

The American Soybean Association Market Development Foundation is a funding agency which contracts with ASA to carry out a worldwide market development program for soybeans.

The foundation membership consists of representatives from each of the soybean producing states with production checkoff programs and other funding groups.

American Soybean Association Research Foundation

Authorized by the American Soybean Association August 17, 1965; incorporated November 1965.

BOARD OF DIRECTORS

President—Eugene Glock, Rising City, NE 68658
Vice President—Ralph Weems, Jr., West Point, MS 39773
Secretary-Treasurer—F. H. (Ted) Bailey, New Bern, NC 28560
Richard Elijah, Clarence, IA 52216
Charles Hamon, Valley Falls, KS 66088
Chairman
Bill Mathena, Kell, IL 62853
Patrick J. Quinn, Monterey, LA 71354
Vernon Runholt, Marshall, MN 56258
Dave Wiggins, Eutawville, SC 29048
Robert W. Judd, managing director, National Soybean Crop Improvement Council, 211 S. Race St., Urbana, IL 61801
Wilda Martinez, ARS/USDA, Beltsville Agricultural Research Center, Beltsville, MD 20705
Dr. Robert Leffel, ARS/USDA, Beltsville, MD 20705
Dr. Kenneth Bader, ASA chief executive officer, St. Louis, MO 63141
Dr. Keith Smith, ASA director of research, St. Louis, MO 63141

The American Soybean Association Research Foundation provides the means through which firms and individuals who have a stake in the industry may donate funds to implement needed research in fields related to soybeans.

The foundation provides a tax-free channel through which members of the industry can contribute by backing research in such fields as soybean production, handling, marketing, processing and utilization. Money donated to the foundation will go to the research projects, not to cover administrative costs.

Within all of agriculture, the soybean is the bright star on the horizon. But more research is needed in many fields to solve the problems facing the industry.

FOOD PROTEIN COUNCIL

Organized 1971
Executive office: 1800 M St., NW, Washington, DC 20036. Ph. 202-467-6610.

OFFICERS

Chairman—Kent N. Mittelberg
Vice Chairman—Willis Clark
Executive Vice President—Sheldon J. Hauck
Executive Committee—Kent N. Mittelberg, Willis Clark, John J. Anton, B. Marlo Dirks, Ed Senska, Thomas L. Welsh
Director of Public Affairs—Jack DuVall
Director of Regulatory Affairs—Scott E. Sterling

The Food Protein Council is comprised of firms and corporations regularly engaged within the United States in the actual processing or sale of vegetable proteins or products containing vegetable protein products derived from agricultural sources for use and consumption in human foods.

Goals of the council are to build awareness of the established nutritional properties of commercially available vegetable proteins and to participate in the formulation of U.S. nutrition goals and policies; to assist government agencies, the scientific community, the food processing industry, and public interest groups in the better understanding of the role and utilization of vegetable proteins in the food system; and to work toward the establishment of harmonized world food regulations that maximize the economic and nutritional properties of vegetable proteins in the world food supply.

A total of 14 firms are members of the Food Protein Council.

NATIONAL SOYBEAN PROCESSORS ASSOCIATION

Organized 1930
Executive office: 1800 M Street, NW, Washington, DC 20036. Ph. 202-452-8040.

OFFICERS

Chairman—C. Lockwood Marine
Vice Chairman—Edward J. Cordes
President—Sheldon J. Hauck
Secretary—George A. Heinz
Treasurer—Donald H. Leavenworth
General Counsel—Elroy H. Wolff, Esq., Sidley & Austin, 1730 Pennsylvania Ave., NW, Washington, DC 20006
Director of Public Affairs—Jack DuVall
Managing Director, National Soybean Crop Improvement Council (NSCIC)—Robert W. Judd, 211 S. Race St., Urbana, IL 61801

Regular membership in the National Soybean Processors Association is open to individual firms or corporations regularly engaged in the actual processing of soybeans. The association now has 33 member firms who process more than 95% of the soybeans crushed in the United States.

Firms which are consumers of soy oil and/or soybean meal are eligible for associate membership. A number of refiners and mixed-feed manufacturers are now associate members of the association.

The association policy is determined by its board of directors who represent all sections of the processing areas and all types of processing units. The 16 committees of the association carry on the general activities group.

Through this organization, equitable trading rules have been developed which have admirably and fairly served the buyers and sellers of soybean products during the years in which the soybean industry has made such remarkable growth.

Government relations activities of NSPA have insured close cooperation between the soybean processing industry and the Federal government, on such issues as international trade negotiations, environmental protection regulation and domestic agricultural legislation.

The NSPA Meal Export Development Committee has since 1978 reviewed extensively the American soybean meal export system and has developed revised and new trading rules improving the efficiency of the export process and the quality of products in international trade.

The intense research activity fostered by the association and its members has played an important part in placing the industry on the high plane which it enjoys today. The promotional efforts of the association and its members have established a place for soybean products in highly competitive fields. Through this research and promotional activity the products of soybeans have become standard essentials in our food, feed and industrial markets.

The National Soybean Crop Improvement Council was established in 1941 by the association to cooperate with agricultural interests to encourage the growing of soybeans in the United States. Robert W. Judd is the managing director located at Urbana, IL.

The council cooperates with agronomy departments and experiment stations in the soybean-producing states, the U.S. Department of Agriculture and all segments of the soybean industry to encourage agronomic research for the purpose of reducing soybean production costs per bushel and providing improved strains of soybeans for producers, processors and consumers. The educational activities of the council serve to promote the adoption of improved agronomic practices.

An advisory board for the council was formed in 1950 and consists of 25 university agronomy department heads, 4 scientists from USDA, a representative from commercial soybean breeders and one representative from ASA. The advisory board serves as a liaison between the council and scientists engaged in all phases of soybean production research.

The council publishes **Soybean News** in January, April and October. The publication is designed to help increase soybean production efficiency. It is available to all interested persons on request.

Official trading rules governing the purchase and sale of soybean meal and soy oil are carried in the **Year Book and Trading Rules of the National Soybean Processors Association.** Copies of the yearbook may be obtained at $8 per copy at the association's Washington offices.

ONTARIO SOYA-BEAN GROWERS MARKETING BOARD

Office—Wheels Plaza, 175 Keil Dr. S., P.O. Box 1199, Chatham, Ont. N7M 5L8, Canada. Ph. 519-352-7730.
Chairman—Donald Lumley, Rt. 3 Iona Station
1st Vice Chairman—John McEachren, Rt. 4 Glencoe
2nd Vice Chairman—Bernard Calhoun, Rt. 2 Essex
Executive Director—Bernard Girard, Rt. 1 Merlin
Secretary Manager—Otis McGregor, P.O. Box 1199, Chatham, Ont.

Sixteen thousand grower-members. Purpose is to control and regulate the marketing of soybeans in Ontario. The board negotiates the terms and conditions of sales with dealers and processors. The board does not conduct actual purchase and sale, though it has power to do so. The board is financed by license fees paid by each grower according to the number of tons of soybeans sold, the license fee cannot exceed 74 cents a ton. At present, the fee is 70 cents.

The Ontario Soya-Bean Growers Marketing Board provides a toll-free telephone service 24 hours a day on price offered by crushers to dealers and growers.

STATE RESEARCH EXPERIMENT STATIONS

*USDA Collaborator

ALABAMA

Agricultural Experiment Station, Auburn 36830.
Department of Agronomy and Soils
Evans, E. M., Growth Regulation
Hiltbold, A. E., Soil Microbiology
Thurlow, D. L., Crop Management
Touchton, J. T., Crop Nutrition
Walker, R. H., Weed Science
*Ward, C.Y., Administration

ARKANSAS

University of Arkansas, Fayetteville 72701.
Beatty, K.D., agronomy
*Caviness, C.E., agronomy
Mueller, A.J., entomology
Oliver, L.R., agronomy
Riggs, R.D., plant pathology
Stutte, C., agronomy
Walters, H.J., plant pathology

University of Arkansas, Pine Bluff 71601.
Porter, O.A., agronomy

Arkansas State University, State University 72467.
Duclos, L., agronomy

DELAWARE

Plant Science Department, University of Delaware, Newark 19711.
Carroll, R.B., plant pathologist

Substation Division, University of Delaware, Georgetown 19947.
Wisk, E.L., assoc. scientist

FLORIDA

Agricultural Experiment Station, Gainesville 32611.
Bailey, B., agronomist
Boote, K.J., physiologist
Hiebsch, C. K., agronomist
*Hinson, K., research agronomist, USDA, ARS
Teem, D. H., weed scientist

Agricultural Research Center, Rt. 3 Jay 32565.
Brecke, B.J., weed scientist
Kinlock, R.A., nematologist
Peacock, H.A., agronomist

Agricultural Research & Education Center, Quincy 32351.
Herzog, D., entomologist

GEORGIA

College Experiment Station, Athens 30602.
Ashley, D., agronomist (plant physiology)
Boerma, R., agronomist (breeder)
Giddens, J., agronomist (microbiology)

Agricultural Experiment Station, Experiment 30212.
Hardcastle, W.S., agronomist (weed science)
Phillips, D.V., pathologist

Coastal Plain Experiment Station, Tifton 31794.
Marchant, W.H., agronomist
Parker, M.B., agronomist
Todd, J.W., entomologist

ILLINOIS

University of Illinois, Urbana 61801.
Banwart, W. L., agronomy
Bernard, R. L., agronomy
*Boyer, J. S., agronomy & botany
Brooks, B. L., ag economics
Camacho, L., agronomy
Chaven, C., agronomy
Cheryan, M., food science
Cole, M. A., agronomy
*Edwards, D. I., plant pathology
Erdman, J. W., food science
Fullerton, T. M., agronomy
Goodman, R. M., plant pathology
*Gray, L. E., plant pathology
Hadley, H. H., agronomy
Hageman, R. H., agronomy
Harper, J. E., agronomy
Hassett, J. J., agronomy
Hesketh, J. D., agronomy
Hieronymus, T. A., ag economics
Hill, H., agronomy
Hill, L. D., ag economics
Hittle, C. N., agronomy
*Hummel, J. W., ag engineering
Hymowitz, T., agronomy
Irwin, M.E., ag entomology
Jackobs, J.A., agronomy
Johnson, R.R., agronomy
Judy, W.H., agronomy
Klein, B.P., foods & nutrition
Knake, E.L., agronomy
Koeppe, D.E., agronomy
Kogan, Marcos, ag entomology
Kurtz, L.T., agronomy
Lim, S.M., plant pathology
McGlamery, M.D., agronomy
McKibben, G.E., agronomy
*Nave, W.R., ag engineering
Nelson, R.L., agronomy
Newell, C.A., agronomy
Nickell, C.D., agronomy
*Noel, G.R., plant pathology
Oard, J.H., agronomy
*Ogren, W.L., agronomy
Paulsen, M.R., ag engineering
Paxton, J.D., plant pathology
Peck, T.R., agronomy
Pepper, G.E., agronomy
Peters, D.B., agronomy
Porter, V.L., food science
*Portis, A.R., agronomy
Quyen, N., agronomy
Raymer, P.L., agronomy
*Rinne, R.W., agronomy

Rodda, E.D., ag engineering
Ross, L.G., agronomy
Schultz, G.A., ag entomology
Siemens, J.C., ag engineering
Sinclair, J.B., plant pathology
Slife, F.W., agronomy
Steinberg, M.P., food science
*Stoller, E.W., agronomy
Taranto, M.V., food science
*Wax, L.M., agronomy
Walker, W.M., agronomy
Wei, L.S., food science
Welch, L.F., agronomy
Widholm, J.M., agronomy
Williams, S.W., ag economics

INDIANA

Agricultural Experiment Station, West Lafayette 47907.
*Abney, T., botany & plant pathology
Athow, K.L., botany & plant pathology
Edwards, C.R., entomology
Koller, H.R., agronomy
Laviolette, F.A., botany & plant pathology
Swearingen, M.L., agronomy
*Wilcox, J.R., agronomy

IOWA

Agricultural Experiment Station, Ames 50010.
Anderson, I.C., physiology
Buchele, W.F., ag engineering
Burris, J.S., seed physiology
Dunleavy, J.M., diseases
*Erbach, D., tillage
Fehr, W.R., breeder
Loynachan, T.E., nitrogen fixation
Green, D.E., breeder
Hammond, E.G., biochemistry
Hanway, J.J., mineral nutrition
Hill, J.H., seed pathology
Imsande, J., genetics
Lovely, W.G., tillage
McGee, D.C., seed pathology
*Palmer, R.G., cytogenetics
Pedigo, L., insects
Shaw, R.H., climatology
Shibles, R.M., physiology
Staniforth, D.W., weed control
*Tachibana, H., diseases (bacteriological)
*Taylor, H.M., root growth
Webb, J.R., soybean fertilization
Whigham, D.K., soils

KANSAS

Southeast Kansas Branch Experiment Station, Mound Valley 67354.
Kelley, K.W.

Kansas State University, Manhattan 66506.
*Mader, E., agronomy
*Schapaugh, W., agronomy
*Schwenk, F., plant pathology

KENTUCKY

University of Kentucky, Lexington 40506.
Egli, D., physiology
Leggett, J.E., mineral nutrition
Orf, J.H., breeder
Tekrony, D.M., seed quality
Wood, J.M. III, variety testing

LOUISIANA

Louisiana State University, Baton Rouge 70803.
Dunigan, E.P., agronomy
Gilman, F., agronomy
Harger, T.E., plant pathology
Horn, N.L., plant pathology
Larson, A.D., microbiology
Mayeux, M., ag engineering
Newsom, L.D., entomology
Paxton, K.W., ag economics & agribusiness
Rao, R.M., food science
Sedberry, J.E., agronomy

Dean Lee Agriculture Center, LSU-A, Alexandria 71301.
Marshall, J.G., agronomist

Northeast Louisiana Experiment Station, P.O. Box 438, St. Joseph 71366.
Boquet, D.J., agronomist
Crawford, S.A., ag engineer
Hutchinson, R.L., agronomist
Rogers, R.L., plant pathology & physiology (superintendent)

Red River Valley Experiment Station, Box 5477, Bossier City 71111.
McBride, J.M., plant pathology, (superintendent)
Rabb, J.L., agronomist

Rice Experiment Station, P.O. Box 1429, Crowley 70526.

MARYLAND

University of Maryland, College Park 20742.
Kenworthy, W.J., plant breeding & production
Wiebold, W.J., plant physiology

MINNESOTA

Agricultural Experiment Station, St. Paul 55101.
*Anderson, R.N., weed control
Brun, W., physiology
Ham, G., microbiology & nitrogen nutrition
Kennedy, B.W., pathology
Lambert, J.W., genetics & plant breeding

MISSISSIPPI

Mississippi Agricultural and Forestry Experiment Station, Mississippi State 39762.
Hodges, H.F., agronomy

Delta Station, Stoneville 38776.
Barrentine, W.L.
*Hartwig, E.E.
*Heatherly, L.G.
*Keeling, B.L.
*Kilen, T.C.
Lambert, L.

organizations . . .

MISSOURI

University of Missouri-Columbia, Columbia 65211.
Blevins, D.G., soybean physiology
Brown, J.R., plant nutrition
Decker, W. L., climatology
Dropkin, V.H., nematodes
Fletchall, O.H., weed control
Frisby, J.C., mechanization
Kerr, H.D., weed control
Randall, D.D., biochemistry
Sehgal, O.P., virology
Teague, W.R., soil physiology
Wyllie, T.D., diseases

University of Missouri Delta Center, P.O. Box 160, Portageville 63873.
Anand, S.C., soybean breeding
Baldwin, D.H., Jr., diseases

NEBRASKA

University of Nebraska-Lincoln, Lincoln 68583.
Borchers, R.L., agricultural biochemistry lab
Handell, A.P., III, food science & technology
Klucas, R.V., agricultural biochemistry lab
Specht, J.E., agronomy
Williams, J.H., agronomy

NEW YORK

Agricultural Experiment Station, Ithaca 14853
Knapp, W.R., agronomy
Wright, M.J., agronomy
*Zobel, R.W., agronomy

NORTH CAROLINA

Agricultural Research Service, Raleigh 27650.
Buescher, P.J., crop science
Coble, H.D., crop science
Gross, H.D., crop science
Hanson, W.D., genetics
Kamprath, E.J., soil science
Schmitt, D.P., plant pathology
Van Duyn, J.W., entomology

NORTH DAKOTA

North Dakota State University, Fargo 58105.
*Whited, D.S., agronomy

OHIO

Ohio Agricultural Research & Development Center, Wooster 44691.
Cooper, R.L., USDA plant breeder
Donoho, C.W., associate director
*Jeffers, D.L., agronomist
Mederski, H.J., agronomist
Schmitthenner, A.F., pathologist
Streeter, J.G., agronomist
Walker, A.K., plant breeder

Ohio State University, Columbus 43210.

SOUTH CAROLINA

Clemson University, Clemson 29631.
Carner, G.R., entomology & economic zoology
Gossett, B.J., agronomy & soils
Lewis, S.A., plant pathology & physiology
Miles, G.E., ag engineering
Morr, C.V., food science
Palmer, J.H., agronomy & soils
Quisenberry, V.L., agronomy & soils
Shepard, B.M., entomology & economic zoology
Skipper, H., agronomy & soils

Edisto Experiment Station, Blackville 29817.
Blackmon, C.W., plant pathology
Musen, H.L., agronomy & soils
Sullivan, M., entomology & zoology
Turnipseed, S.G., entomology & zoology

TENNESSEE

University of Tennessee, P.O. Box 1071, Knoxville 37901.
Allen, F., plant & soil science
Seatz, L.F., plant & soil science
Skold, L.N., plant & soil science

West Tennessee Experiment Station, Jackson 38301.
Epps, J.M., nematologist
Hayes, R.M., plant & soil science
Young, L.D., nematologist

TEXAS

Texas A&M University Agricultural Research & Extension Center, Rt. 3, Lubbock 79401.
*Brigham, R.D., agronomist
Young, J.K., agronomist

Texas A&M University Agricultural Research & Extension Center, Beaumont 77706.
Paschal, E.H. II, agronomist
Sij, J., physiologist

VIRGINIA

Agricultural Experiment Station, Blacksburg 24061.
Buss, G.R., geneticist

Eastern Virginia Research Station, Warsaw 22572.
*Camper, H.M., Jr., superintendent

WISCONSIN

University of Wisconsin, Madison 53706.
Bingham, E.T., agronomy
*Gritton, E.T., agronomy
Oplinger, E.S., agronomy
Pendleton, J.W., agronomy

U.S. DEPARTMENT OF AGRICULTURE

OFFICE OF SECRETARY

Secretary of Agriculture Bob Bergland

SCIENCE AND EDUCATION ADMINISTRATION

Anson R. Bertrand, director for science and education
T.W. Edminster, Administrator, Agricultural Research
Mary Nell Greenwood, Acting Administrator, Extension
W.I. Thomas, Administrator, Cooperative Research
Richard A. Farley, Administrator, Technical Information Systems
Mark Hegsted, Administrator, Human Nutrition
James M. Nielson, Deputy Director, Joint Planning and Evaluation
Arthur H. Nies, Deputy Director, Administrative Management
Homer C. Folks, Assistant Director, Higher Education

Cooperative Research

W. I. Thomas, Administrator
C. I. Harris, Deputy Administrator, agriculture, rural development and consumer services program
E. C. Miller, Deputy Administrator, program operations, evaluation and analysis
J. E. Sullivan, Deputy Administrator, natural resources and special programs

Agricultural Research

T. W. Edminster, Administrator
T. B. Kinney, Associate Administrator

National Program Staff
BARC-West, Beltsville, MD 20705

Crop Protection Staff

M. D. Levin, acting chief

Staff Scientists

M. L. Cleveland, fruit and vegetable insects control
W. M. Dowler, plant pathology and nematology
R. D. Jackson, insect control-grain, forage and oilseed
W. Klassen, pest management
R. L. Ridgway, insect control - cotton and tobacco
P. N. Schwartz, pest control materials
W. C. Shaw, weeds and agriculture chemicals technology

Crop Production Staff

R. E. Coleman, acting chief

Staff Scientists

L. W. Briggle, small grains production
N. J. Brooks, fruits and nuts, hops and mint production
G. Carlson, forage and range production
R. E. Coleman, vegetables and florists and nursery crops
Q. Jones, plant introduction and narcotics
R. C. Leffel, oilseed crops production
P. A. Miller, cotton production
G. G. Still, plant physiology

Soil, Water, and Air Sciences Staff

H. L. Barrows, chief

Staff Scientists

D. A. Farrell, watershed hydrology
R. F. Follett, soil fertility and plant nutrition
J. Lunin, environmental quality
J. C. Ritchie, aerospace technology
M. E. Jensen, water management

Post Harvest Science and Technology Staff

A. M. Cowan, acting chief

Staff Scientists (Post Harvest Science and Technology Staff)

R. H. Alsmeyer, animal products, processing and marketing
N. F. Getchel, fiber processing technology
R. L. Handwerk, processing fruits and vegetables
R. E. McDonald, post harvest quality of horticultural crops
W. H. Martinez, processing technology - field crops and exports - animal products

Livestock and Veterinary Sciences Staff

H. G. Purchase, acting chief

Staff Scientists (Livestock and Veterinary Sciences Staff)

A. A. Anserson, domestic animal diseases
R. J. Gerrits, swine
J. L. Hyde, foreign animal diseases
C. A. Kiddy, dairy production
D. A. Lindquist, insects affecting man and animals
C. E. Terrill, sheep and other animals
E. J. Warwick, beef cattle
R. G. Yeck, livestock engineering and rural housing

NORTHEASTERN REGION
BARC-West, Beltsville, MD 20705

S. C. King, regional administrator
G. E. Vanden Berg, associate regional administrator

Beltsville Agricultural Research Center

E. Finney, acting center director
G. W. Schaeffer, cell culture and nitrogen fixation

J. B. Powell, field crops
G. E. Carlson, light and plant growth
R. K. Howell, plant stress
G. C. Papavizas, soilborne diseases
C. A. Thomas, applied plant pathology

Eastern Regional Research Center
600 E. Mermaid Lane, Philadelphia, PA 19118

I. A. Wolff, center director
H. I. Sinnamon, process engineering and development

North Atlantic Area
(MD, DE, WV, DC, NY, PA, NJ, VT, NH, ME, CT, MA)

J. B. Wilson, area director, Cornell University Tower Road, Ithaca, NY 14853
J. F. Thompson, plant, soil and nutrition research
E. R. Lemon, microclimatology research
C. H. Kingsolver, plant disease and nematode control, Plant Disease Research Lab., Frederick, MD 21701

NORTH CENTRAL REGION
2000 W. Pioneer Pkwy., Peoria, IL 61614

Vacant, regional administrator
P. J. Fitzgerald, associate regional administrator

Northern Regional Research Center
1815 N. University St., Peoria, IL 61604

W. H. Tallent, center director
H. J. Dutton, chairman, oilseed crops
L. H. Princen, chairman, horticulture and special crops

Illinois - Indiana - Ohio Area

J. G. Hartsock, area director, 2700 Kent Ave., W. Lafayette, IN 47906
J. R. Wilcox, breeding and production, Purdue Univ., W. Lafayette, IN 47907
R. L. Cooper, breeding and production, Ohio Agricultural Research and Development Center, Wooster, OH 44691

University of Illinois, Urbana, IL 61801
R. W. Rinne, breeding and production
W. R. Nave, production and harvesting equipment
D. I. Edwards, plant disease and nematode control
L. M. Wax, weed control

Mid-Great Plains Area
(KS, NE, IA, MO)

C. W. Alexander, area director, 800 N. Providence Rd., Columbia, MO 65201
V. D. Luedders, breeding and production, University of Missouri, Columbia, MO 65201
M. R. Gebhardt, pest control equipment, University of Missouri, Columbia, MO 65201

Iowa State University, Ames, IA 50010
J. M. Dunleavy, breeding and production
D. C. Erbach, production and harvesting equipment
D. C. Erbach, pest control equipment
D. C. Erbach, tillage practices

U.S. Grain Marketing Research Laboratory
1515 College Ave., Manhattan, KS 66502
L. M. Seitz, technologies for marketing products
L. A. Bulla, insect control in marketing
L. M. Seitz, toxic constituents of food and feeds

Michigan - Minnesota - Wisconsin Area

K. L. Lebsock, area director, University of Minnesota, North Hall, St. Paul, MN 55108
R. N. Andersen, weed control, University of Minnesota, St. Paul, MN 55108

SOUTHERN REGION

E. L. Kendrick, regional administrator

Mid-Atlantic Area (NC, TN, KY, VA)

G. R. Burns, area director, Patterson Hall, North Carolina State University, Raleigh, NC 27607
C. A. Brim, breeding and production, North Carolina State University, Raleigh, NC 27607
J. M. Epps, plant disease and nematode control, 605 Airways Blvd., Jackson, TN 38301

Southeast Area (AL, GA, SC)

D. E. Zimmer, area director, Georgia Coastal Plains Experiment Station, Tifton, GA 31794
N. A. Minton, plant disease and nematode control, Georgia Coastal Plains Experiment Station, Tifton, GA 31794
C. C. Dowler, weed control, Georgia Coastal Plains Experiment Station, Tifton, GA 31794
R. Davis, insect control in marketing, Stored Product Insects Research and Development Lab., 3401 Erwin Ave., Savannah, GA 31403
R. B. Campbell, tillage practices, Coastal Plains Soil and Water Conservation Research Center, Darlington Highway, Florence, SC 29502
C. J. Phene, irrigation and drainage, Coastal Plains Soil and Water Conservation Research Center, Darlington Highway, Florence, SC 29502

Athens, Georgia Area

Vacant, area director, Richard B. Russell Agricultural Research Center, Athens, GA 30604
J. A. Robertson, stored products

Florida-Antilles Area

Dean Davis, area director, 1700 SW 23rd Dr., Gainesville, FL 32604
K. Hinson, breeding and production, University of Florida, Gainesville, FL 32611

Delta States Area (MS, LA, AR)

C. D. Ranney, area director, U.S. Delta States Agricultural Research Center, Stoneville, MS 38776

U.S. Delta States Agricultural Research Center, Stoneville, MS 38776

E. E. Hartwig, breeding and production
J. R. Willford, production and harvesting equipment
D. F. Martin, insect control in production
C. G. McWhorter, weed control
C. G. McWhorter, pest control equipment

WESTERN REGION
1333 Broadway, Suite 400, Oakland, CA 94612

H. C. Cox, regional administrator
W. G. Chase, associate regional administrator

California-Hawaii-Nevada Area

E. B. Knipling, area director, 2021 S. Peach Ave., Fresno, CA 93727
B. Beard, breeding and production, University of California University Farm, Davis, CA 95616

FOREIGN AGRICULTURAL SERVICE, USDA

Dale E. Hathaway, under secretary for international affairs and commodity programs
Thomas R. Hughes, administrator
Jimmy D. Minyard, assistant administrator, foreign market development
Philip L. Mackie, director, oilseeds and products division.

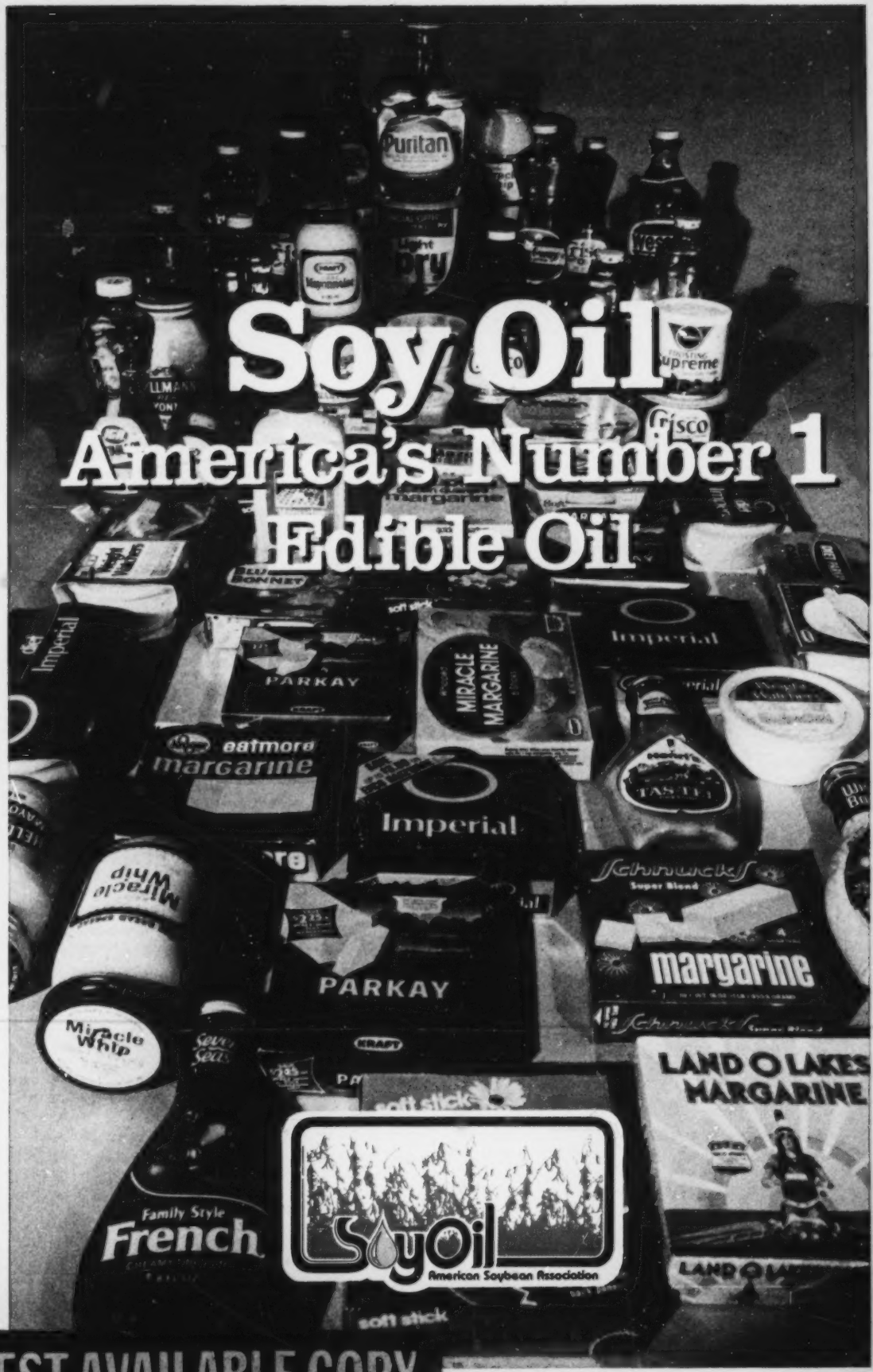
Agricultural Attaches
c/o American Embassy in City Listed

Australia—Brice K. Meeker, Canberra
Austria, Hungary, Czechoslovakia—Nicholas M. Thuroczy, Vienna
Bangladesh—Oldrich Fejfar, Dacca
Belgium, Luxembourg—James Lankford, Brussels
Brazil—G. Stanley Brown, Brasilia
Canada—Alex Bernitz, Ottawa
Chile—Robert Fouchs, Santiago (summer 1980)*
China, People's Republic of—William L. Davis Jr., Beijing
Colombia—Lloyd Holms, Bogota
Costa Rica, Panama—Edwin I. Cissel, San Jose; Frank Lee (Aug. 1979)*
Denmark, Norway—Fred Traeger, Copenhagen; Lyle Moe (Aug. 1979)*
Dominican Republic, Antigua, Bahamas, Dominica, French West Indies, Haiti, Jamaica, Nevis, Monserrat, St. Kitts—Robert R. Anlauf, Santo Domingo
Ecuador—W. Lynn Abbott, Quito
Egypt, Arab Republic of—James E. Ross, Cairo
France—Turner Oyloe, Paris
Germany, Federal Republic of—Dale Douglas, Bonn
German Democratic Republic—Steve Yoder, Berlin (summer 1980)*
Greece, Bulgaria—Wilferd L. Phillipsen, Athens
Guatemala, Honduras, Belize—Harry C. Bryan, Guatemala City
Hong Kong—Alva L. Erisman, Hong Kong
India, Nepal, Sri Lanka—Garth Thorburn, New Delhi
Indonesia—Alan W. Trick, Jakarta
Iran—Temporarily closed, Tehran
Ireland—Margaret A. Mason, Dublin
Israel, Cyprus—Roger F. Puterbaugh, Tel Aviv
Italy—Edward Nickols, Rome
Ivory Coast, Liberia, Guinea, Senegal, Sierra Leone—Kenneth L. Murray, Abidjan
Japan—Dudley G. Williams, Tokyo
Kenya, Zambia, Tanzania—Dale K. Vining, Nairobi
Korea—Gerald W. Shelden, Seoul
Malaysia, Brunei, Singapore—Robert J. Svec, Kuala Lumpur
Mexico—John Montel, Mexico City
Morocco, Tunisia, Libya—Frank J. Piason, Rabat
Netherlands, Clarence Jean, The Hague
New Zealand—James M. Benson, Wellington
Nigeria, Ghana, Cameroons—George Pope, Lagos
Pakistan—Charles Clendenen, Islamabad
Peru, Bolivia—Richard L. Barnes, Lima
Philippines—John Riesz, Manila
Poland—Jerome M. Kuhl, Warsaw
Portugal—Richard McDonnell, Lisbon
Romania—Harold Sanden, Bucharest
South Africa, Lesotho, Botswana, Namibia, Swaziland—James O. Howard, Pretoria
Spain, Canary Islands—Leon G. Mears, Madrid
Sweden, Finland—William Huth, Stockholm
Switzerland—Robert Fitzsimmonds, Bern
Syria, Lebanon, Jordan and Iraq—Pitamber Devgon, Damascus
Taiwan—Edwin A. Bauer, American Institute in Taiwan, Taipei
Thailand—Paul J. Ferree, Bangkok
United Kingdom, Northern Ireland—William L. Rodman, London
Argentina, Uruguay, Paraguay—James Parker, Buenos Aires
USSR—Harlan Dirks, Moscow
Venezuela, Barbados, French Guiana, Grenada, Guyana, Netherlands Antilles, St. Lucia, St. Vicent, Surinam, Trinidad, Tobago—George J. Dietz, Caracas
Yugoslavia—Roger Lowen, Belgrade (summer 1980)*
Zaire—Robert W. Johnson, Kinshasa

AGRICULTURAL TRADE OFFICERS

Germany, Federal Republic of: Hamburg—Homer F. Walters, Agricultural Trade Officer, Agricultural Trade Office, APO New York 09080
Poland—Charles J. Larson, Agricultural Trade Officer, American Embassy c/o AmConGen, APO New York 09757
United Kingdom—Frank L. Waddle, Agricultural Trade Officer, American Embassy, Box 40, FPO New York 09678
Caribbean and Central America—George R. Delgado, Agricultural Trade Officer, Agricultural Trade Office, University Saving and Loan Bldg., Suite 305, 2222 Ponce de Leon Boulevard, Coral Gables, Florida 33134
Korea—Evans Browne, Agricultural Trade Officer, American Embassy, APO San Francisco 96301
Singapore—James Y. Iso, Agricultural Trade Officer, Agricultural Trade Office, Units 1501-1504, Liat Towers, Singapore

*Estimated Time of Arrival



BEST AVAILABLE COPY

U.S. processors

Officers of firms are listed as follows: (1) president; (2) vice president; (3) secretary; (4) treasurer; (5) head soybean buyer; (6) oil sales manager; (7) plant superintendent; (8) meal sales manager; (9) plant manager. Type of processing equipment, tons per day, processing capacity, total storage capacity, phone numbers and railroads serving the individual plant are listed. Information was obtained through questionnaires sent directly to processing companies. These listings are as complete as it was possible to assemble. They contain all available information but the publishers of the **Soya Bluebook** will not be responsible for any omissions which may have been unavaoidably made. Established policy of some firms makes unavailable more complete information than is carried in this directory.

ALABAMA

Decatur 35601 — GOLD KIST SOY, Box 1948, Ph. 205-350-4550. Complex Manager, W. R. Little; (5) R.T. Upton; (7) W. H. Moses; (8) F. W. Luckey; (9) T. E. Mitchell.

Guntersville 35976 — CONTINENTAL GRAIN CO. Main office: 277 Park Ave., New York, NY. Ph. 205-582-5614. (5, 8) J.W. Jefferson; (9) R. D. Day.

ARIZONA

Phoenix 85062 — ANDERSON, CLAYTON & CO., Oilseed Processing Div., P.O. Box 2988. Ph. 602-264-7255. Plants at Jackson and Vicksburg, MS. (1) T.H. Wolfe; (2) soybean operations, J.K. Smith; oil and meal sales, R.H. Henson.

ARKANSAS

Helena 72342 — RICELAND FOODS, Home office: 2120 S. Park Ave., Stuttgart. Chm. of board, Romeo Short Jr.; vice chm. Stewart Jessup; (1) and chief exec. officer, W.F. Carle; exec. v.p. and chief operating officer, Richard E. Bell; senior v.p. of operations, Robert R. Rawlings; v.p. for finance and secy./treas., Charles Gunnell; v.p. and gen. mgr. of the soybean div., Leland L. Carle; v.p. soybean meal sales, Dorothy Seidenschwarz; v.p. edible oil sales, L.H. Dodson; gen. traffic mgr., Mike Wylie; v.p. engineering and construction, Fritz M. Bloomberg; (7) Frank McDonald; (9) W.E. Higginbothom. Solv. Cap. 1,500 T. 44% and 49% soybean meal. Served by MP RR.

Little Rock 72119 — BUCKEYE CELLULOSE CORP., P.O. Box 5727. Dist. mgr., B.W. Swilley; (7) J.H. Harmon.

Osceola 72370 — CARGILL INC., P.O. Box 528. Ph. 501-563-5263. (7) Harold Cook; (9) C.L. Smith. Hexane solv. Cargill soybean meal. Served by RI RR.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., Box 926. Ph. 501-673-5500. Cable Arkango. TWX 910-720-6240. Chm. of board, Romeo Short Jr.; vice chm., Stewart Jessup; (1) and chief exec. officer, W.F. Carle; exec. v.p. and chief operating officer, Richard E. Bell; senior v.p. of operations, Robert R. Rawlings; v.p. for finance and secy./treas., Charles Gunnell; v.p. and gen. mgr. of the soybean div., Leland L. Carle; v.p. soybean sales, Dorothy Seidenschwarz; v.p. edible oil sales, L.H. Dodson; gen. traffic mgr., Mike Wylie; v.p. engineering and construction, Fritz M. Bloomberg; (7) Max Montgomery; (9) Giles Colbert. Solvent Cap. 2,000 T. 44% and 49% soybean meal. Served by SSW, RI RR.

Van Buren 72956 — FARMLAND INDUSTRIES, INC., soybean processing plant, P.O. Box 389. Ph. 501-474-6871. TWX 910-720-6869. (1) John Anderson; (2) Kenneth Nielsen; (3) W. Gordon Leith; (4) Earl L. Knauss; (5, 6) Sam Peterson; (7) Sam Young; (8) Robert Hamilton; (9) Larry D. Heatherington. Solvent cap. 600 T. Storage cap. 1 mil. bu. High Protein soybean meal. Served by MP, SLSF RR.

Wilson 72395 — DELTA PRODUCTS CO., P.O. Box 218. Shipping point: Evadale. Ph. 501-655-8603. (1) R.E.L. Wilson III; (2) E.M. Regenold; (3) H.F. Ohlendorf; (4) C.A. Medlin; (7) C. Bussey; gen. mgr., Ralph C. Woodruff. Solvent, cap. 200 T. Storage cap. 1½ mil. bu. Delpro soybean meal. Soybean operations 40%. Served by Delta Valley & SOU RR.

CALIFORNIA

Norwalk 90650 — LIBERTY VEGETABLE OIL CO., P.O. Box L. Ph. Los Angeles 213-773-2092; Norwalk 213-921-3567. Telex 691-608. (1) I.S. Field; (2, 6) C.W. Adams; (5, 8) E. Nadel: (7) O. Blair. 8 screw pr., cap. 120 T. Storage cap. 300,000 bu. Served by SP RR.

Richmond 94804 — PVO INTERNATIONAL INC., 1145 Harbour Way S. Ph. 415-529-1020. Main office: San Francisco. (2) Robert F. Huff; (6) James Karson; (9) Richard Schneider. Hexane solv. cap. 300 T. Storage cap. 500,000 bu. PVO soybean meal. Served by SP, ATSF RR.

San Francisco 94111 — PVO INTERNATIONAL INC., World Trade Center No. 130. Ph. 415-362-0990. Plant at 1145 Harbour Way S., Richmond. (1) John R. Hungerford; (2) Robert F. Huff; (3) Cameron I. Kay; (8) William McNab.

U.S. processors . . .

DELAWARE

Millsboro 19966 — TOWNSEND'S INC., Ph. 302-934-9221. (1,4) P.C. Townsend; (3) Larry Fichter; (5) J.D. Phillips; (9,6) George A. Adkins; (8) Charles H. Morris; (7) Walter Morgan. Hexane solv., cap. 1000 T Storage cap. 5,380,000 bu. Townsend's Inc. soybean meal, mixed feeds and pellets.

GEORGIA

Atlanta 30301 — GOLD KIST INC., Box 2210, Ph. 404-393-5022. Telex 54-2338, 70-8404. (1 exec.) W.W. Gaston, (2 exec.) W.C. Pulliam, D.W. Sands; (2 Agricommodities) G.O. Coan; (3) J.L. Lawing; (4) C.W. Freeman; Manager, Oil Seed Processing & Grain Div., J.M. Gaston; (6) V.J. Ebbeskotte.

Augusta 30903 — BUCKEYE CELLULOSE CORP., P.O. Box 729. Dist. mgr. P.S. Smithwick; (7) R.A. French.

Gainesville 30501 — CARGILL INC., P.O. Box 1298, 949 Ridge Rd. Ph. 404-535-3100. Main office; Minneapolis, MN. (7) Dick Parr; (9) Edgar T. Savidge. Solvent. Cargill soybean meal. Refined and hydrogenated oils. Served by SOU RR.

Macon 31208 — CENTRAL COTTON OIL, Div. of Southern Soya Corp., Estill, S.C. Ph. 912-743-4434. (1) Stiles Harper; (3, 6, 8 exec. v.p. and gen. mgr.), R.A. Denman: (9) R.P. Padgett. Crown solv., cap. 400 T. Storage cap. 750,000 bu. 44% and 49% soybean meal. Served by SCL, SOU RR.

Valdosta 31601 — GOLD KIST SOY, Box 1589, Ph. 912-242-0100. Complex Manager, G.M. Smitherman; (5) David Thompson; (7) G.R. Stroud; (8) W.C. Smith; (9) C.T. Hunt.

ILLINOIS

Bloomington 61702 — RALSTON PURINA CO., Ph. 309-829-1261. Main office: St. Louis, MO. (5) H.K. Andrews; (7) J.B. Stinson; (9) D.H. Holloway. Hexane solv. Purina Chows mixed feeds. Served by GM&O, IC, ITC, NKP RR.

Cairo 62914 — BUNGE CORP. Ph. 618-734-4141. Office: P.O. Box 113. (5) Brandt Harper; (7) Stanley Bullard; (8) Tom Pfendler; (9) Pat Reisner.

Champaign 61823 — A.E. STALEY MFG. CO., P.O. Box 68. Main office: Decatur. (9) H.B. Parker; (7) D.D. Ehmann. Staley's soybean meal 44% and 49% protein; Staley's soybean mill run.

Chicago 60603 — CARGILL INC., 1660 LaSalle Bank Bldg., 135 S LaSalle St. Ph. 312-855-2914. Main office: Minneapolis, MN. (7) Greg Lofstedt; (9) Al Tennessen. Hexane solv. Cargill soybean meal and industrial oils. Served by CNW RR.

Chicago 60604 — CENTRAL SOYA, 2306 Board of Trade Bldg. Ph. 312-322-1300. Main office: Fort Wayne, IN. Keith Wiggins, mgr. Commodity futures clearing operations.

Danville 61832 — LAUHOFF GRAIN CO. Ph. 217-446-4770. (1) Dick Pittelkow; (5, 6) Larry Friend; (8) Jim Freschi; (9) Marvin Woods. Hexane solv. Served by N&W L&N, MP, CR RR.

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 217-424-5200. Plants at Decatur, Galesburg and Granite City, IL; Mankato and Red Wing, MN; Fredonia, KS; N. Kansas City, MO; Lincoln and Fremont, NE; and Kershaw, SC; (1) J.R. Randall; (2) Ralph Bruce; (2 soy specialties) Tim Malm; (2 vegetable oil div.) James Stowell; (3) Roy Erickson; (4) Don Poboisk; (5) Daryl Dahl; (7) Thurman Gaitros; (8) Charles Bayless; (9) Harry Ground. Hexane solv. Archer 44%, 48%, 49% and 50% soybean meal; defatted, low-fat soy flour; soy concentrate, TVP; Archer soy cooking and salad oil. Served by IC, ITC, N&W RR.

Decatur 62525 — A.E. STALEY MFG. CO., 22nd & Eldorado Sts. Ph. 217-434-4411. (1) D.E. Nordlund; (AgriProducts) R.M. Powers and P.M. St. Clair; (3) E.R. Stanhope; (4) L.B. Miller (5) D.W. Miller; (6 crude) L.D. Hearn; (6 refined) L.P. McNamara; (7) R.H. Pothast; (8) B.D. Koontz; (9) L.R. Shepard. Hexane solv. Staley's soybean meal 44% and 49% protein; HI ProCon 50% protein soybean meal. Staley's soybean mill run, extracted soy flour and grits.

Galesburg 61401 — ARCHER DANIELS MIDLAND CO., 1021 S. Henderson St. Ph. 309-343-1155. Main office: Decatur, IL. (7) John Hansen; (9) Bill Goff. Served by ATSF, BN RR.

Gibson City 60936 — CENTRAL SOYA, Rt. 47& 9, Box 112. Ph. 217-784-8261. Main office: Fort Wayne, IN. (9) George R. Walter. Soybean meal. Centrol lecithin and degummed soy oil. Promosoy, an edible soy concentrate; Response, textured soy concentrate; Centex, textured soy flour. Edible and industrial grades of soy flour; Bontrae, textured soy proteins.

Granite City 62040 — ARCHER DANIELS MIDLAND CO., P.O. Box 1249. Ph. 618-797-6800. (5) Bob Sams; (8) Art Hrbeck; (9) Wes Weber. Hexane solv. Archer 44% and 49%. Served by A&S RR.

Kankakee 60901 — J.R. SHORT MILLING CO., Rt. 3, Grinnell Rd. Office: Sears Tower, 233 S. Wacker Dr., Chicago, IL 60606. Ph. 312-876-7070. (1) J.R. Short Jr.; (2) William Hoffman, Bernard H. Sloan, Jeffrey R. Short III; (3, 4) Thomas W. Uddenberg. Storage cap. 1,000,000 bu. Soy flour for own use. Served by NYC RR.

Quincy 62301 — QUINCY SOYBEAN CO., 1900 S. Front St. Ph. 217-224-1800. (1) T. L. Shade; (4) Paul D. Otto; (5) Nick Davis; (6) Richard Gallaway; (7) Ivan Hill; (8) Jim Whitfield. Solvent. Quincy 44% and 48% soybean meal and pellets. Served by NW, BN RR.

Taylorville 62568 — CONTINENTAL GRAIN CO., 277 Park Ave., New York, NY. Ph. 217-824-3385. (5, 8) G. Gawthrop; (9) L. Pauley.

INDIANA

Angola 46703 — ANGOLA SOYA CO. 424 N. Williams St., P.O. Box 358. Ph. 219-665-2011. Owner, Reginald Hale. Hexane solv., cap. 5 T. Storage cap. 1,400 bu. Soybean meal. Extractions of various specialty items. Served by NYC RR.

Decatur 46733 — CENTRAL SOYA, 1200 N. Second St. Ph. 219-724-2101. Main office: Fort Wayne. (9) Larry Justice. Soybean meal, Centrol Lecithin, refined industrial soy oil, refined edible soybean, corn and palm oils, packaged vegetable shortening.

Fort Wayne 46802 — CENTRAL SOYA, 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5100, Telex 232410. Plants at Decatur and Indianapolis, IN; Gibson City, IL; Belmond, IA; Marion, Delphos and Bellevue, OH; Chattanooga, TN; and Utrecht, Netherlands. Chm. of board, Pres. and CEO, Douglas G. Fleming GP v.p. Joseph W. Gillespie, C. Lockwood Marine, William W. Wilkinson; (2,3,4) Richard J. Sager; (2) R.R. Chappuis, R.T. Clarke, H.J. Donnell, Mark O. Flanagan, M.C. Fritzsche, R.B. Gallaway, R.E. Gillis, J.F. Moran Jr., John E. Sampson, Thomas A. Slamecka, T.J. Suelzer, L.D. Williams, William H. Small, corporate counsel and asst. secretary; vice president and controller, R.C. Hammond; asst. treas. and asst. secy. J.B. Palmer Jr., Treas. and Asst. Secy, Dave B. Essner; (5) J.D. Cavanaugh. Processor of soybeans, producer of refined soy proteins, vegetable oil refiner; grain merchandiser; feed manufacturer; and consumer food service and industrial foods processor. Soybean meal; Natural modified and oil-free grades of lecithin; soy flours, soy grits, Centex-textured soy flours, Promosoysoy protein concentrates, Response-textured soy protein concentrates, Prosoy L-industrial soy flours; refined industrial soy oils; refined edible soy, corn and palm oils for cooking and salad oil, margarine and shortening; and packaged vegetable shortenings.

Frankfort 46041 — A.E. STALEY MFG. CO. Main office: Decatur, IL. (9) M.J. Kerber; (7) I.G. Boren. Staley's soybean meal 44% and 49% protein; Staley's soybean mill run.

Indianapolis 46202 — CENTRAL SOYA, 1160 W. 18th St. Ph. 317-632-8441. Main office: Ft. Wayne. (9) Richard J. Bailey. Soybean meal, crude degummed soybean oil, Centrol lecithin.

Lafayette 47902 — RALSTON PURINA CO., Ph. 317-423-1511. Main office: St. Louis, MO. (5) F.Y. Reichart; (9) J.R. Bill. Hexane solv. Purina Chows mixed feeds. Served by WAB, MKP RR.

Logansport 46947 — BUNGE CORP. Ph. 219-722-3030 Office: R.R. 2, P.O. Box 113. (5,8) T.D. Caldwell; (7) Don McCain; (9) Brian Peterson. Served by NW and ConRail RR.

Logansport 46947 — KRAUSE MILLING CO. INC., subsidiary of Krause Milling Co., RR. 2, P.O. Box 113. Ph. 219-722-3030 (commodity office). Telex 26725. Offices: P.O. Box 1156, Milwaukee, WI 53201. Ph. 414-272-6200. (1) C.A. Krause; (2 and gen. mgr., soybean products div.) R.E. Juricic; (4) R.M. Wesling; (5) R.E. Bammes; (6,8) T.D. Caldwell; (7) W.H. Sisson; (9) D.R. Smith. Solvent. Protein Soybean Meal 44% and 49% crude soy oil. Served by N&W, Conrail.

IOWA

Belmond 50421 — CENTRAL SOYA. Hwy. 69 S., P.O. Box 9. Ph. 515-444-3236. Main office: Fort Wayne, IN. (9) Ken Oltman. Soybean meal, Centrol lecithin, crude degummed soy oil.

Cedar Rapids 52406 — CARGILL INC., 411 6th St. NE. Ph. 319-364-4121. (7) Jim Wieser; (9) Paul Mulhollem. Hexane solv. Cargill soybean meal. Served by MILW RR.

Cedar Rapids 52406 — CARGILL INC., 1010 10th Ave. SW. Ph. 319-366-8381. Main office: Minneapolis, MN. (7) Tom Richardson; (9) Tony Cahill. Hexane solv. Cargill soybean meal and soy proteins. Served by CR, IC RR.

Des Moines 50306 — CARGILL INC. 3030 SE Granger. Ph. 515-263-3115. (5) Curtis Twedt; (7) Keith Kuhlman; (9) Bill Lowe. 44% and 50% soybean meal. Refined oil. Served by DMU RR.

Des Moines 50316 — A.E. STALEY MFG. CO., Drawer C, E. 14th St. Sta. Main office: Decatur, IL (7) C.W. Hagood; (9) P.L. Niehaus. Staley's soybean meal 44% and 49% protein; Staley's soybean mill run.

Eagle Grove 50533 — BOONE VALLEY CO-OP PROCESSING ASSN. Ph. 515-448-4711. (1) Ralph Olsen; (2) Ray Jorth; (3, 4) Bernard Moklebust; (5) Maurice Sturtz; (6, 9 gen. mgr.) Keith M. Voigt; (7) Chas. G. Loux; (8) Leonard Miller. Hexane solv., cap. 1,500 T. Storage cap. 1,700,000 bu. Co-op soybean meal, mixed feeds and pellets. Served by CNW RR.

Fort Dodge 50501 — LAND O'LAKES INC., 5 Central Ave. Ph. 515-573-8111. Corporate offices: Minneapolis, MN. Agricultural services div. office: Fort Dodge. (2) Ken McQueen; (5) Gary Stasko; (6,9) George Cox; (8) Douglas Legg. Hexane solv. Served by IC, CNW RR.

Iowa Falls 50126 — RALSTON PURINA CO. Ph. 515-648-2591. Main office: St. Louis, MO. (5) A.E. Fegler; (7) K.O. Mardick; (9) T.L. Williams. Hexane solv. Purina Chows mixed feeds. Served by RI, IC, CNW RR.

Manning 51455 — AMERICAN GRAIN AND RELATED INDUSTRIES, Ph. 712-653-3985. Served by MILW RR.

Mason City 50401 — AMERICAN GRAIN AND RELATED INDUSTRIES, Soybean Processing Div., 1605 19th St. SW. Ph. 515-423-4733 Hexane solv. Storage cap. 1,050,000 bu. North Iowa soybean meal. Served by RI, MILW, CNW RR.

Ralston 51459 — WEST CENTRAL COOP. Ph. 712-667-3200. (1) Deane Remsburg; (2) Dean Thaler; (3,4) James Conner; (5) Thomas Feldmann; (6,8,9) Wayne Seaman; (7) John Thornton; 4 swrew pr., cap. 60 T. Storage cap. 6,5000,000 bu. Wesenco soybean meal, mixed feeds and pellets. Served by CNW RR.

Sergeant Bluff 51054 — FARMLAND INDUSTRIES INC. P.O. Box 200. Ph. 712-943-4282. TWX 910 968-1757. Office: 3315 N. Oak Trafficway, Kansas City, MO 64116. (1) John F. Anderson; (2) Donald M. Chartier; (3) W. Gordon Leith; (4) Earl L. Knauss; (5) Rick Hansen; (6) Charles

McCauley; (7) Art Blanco; (8) Rich Lee; (9) Bill Lester. Solv. cap. 2,000 T. Storage cap. 3¼ mil. bu. Co-op 44% and 48½% soybean meal, also mixed feeds. Served by CNW RR.

Sheldon 51201 — LAND O'LAKES INC., Box 220. Ph. 712-324-2531. Corporate offices: Minneapolis, MN. Agricultural services div. office: Fort Dodge, IA. (2) Ken McQueen; (5) Mark Thompson; (6) Oscar Benson; (8) Joe Sawyer, Oscar Benson; (9) Ken McQueen. Solv. cap. 1,000 T. Storage cap. 1½ mil. bu. Served by IC, MILW, CNW RR.

Sioux City 51102 — CARGILL INC., 980 Clark St. Ph. 712-258-0174. Main office: Minneapolis, MN. (7) Jeffrey Stanley: (9) Robert Carlson. Hexane solv. Cargill soybean meal and pellets. Served by IC RR.

Washington 52353 — CARGILL INC., N. 15th Ave. & 3rd St. Ph. 319-653-2196. Main office: Minneapolis, MN. (7) John Zoss; (9) Bill Matson. Hexane solv. Cargill soybean meal and pellets. Served by RI RR.

West Bend 50597 — WEST BEND ELEVATOR CO. Ph. 515-887-7211. (1) Leroy Bonnstetter; (2) H.P. Mertz; (3,4) Carl F. Heldt; (5, 6, 8, 9) Fred McKim; (7) Timothy Kloster. 3 exp. cap. 39 T. Storage cap. 2,700,00 bu. Old Process soybean meal and mixed feeds. Served by RI RR.

KANSAS

Emporia 66801 — BUNGE CORP., E. 5th Ave., P.O. Box 518. Ph. 316-342-7270. (5) Robert H. Wise; (7) Claude Rose (8) Tom Schmitt; (9) Jack Thiessen. Served by ATSF RR.

Fredonia 66736 — ARCHER DANIELS MIDLAND CO., P.O. Box 191. Ph. 316-378-2101. (5, 8) Kirk Hartnett; (7) Bob Miller; (9) Ron Price. Hexane solv. Archer 44% and 49% soybean meal. Served by ATSI, MP, SLSF RR.

Girard 66743 — PRODUCERS COOPERATIVE ASSN. Ph. 316-724-8241/2. (1) Marvin Green; (2) Raymond Johnson; (3, 4) James S. Mitchell; (5, 6, 8, 9) C.W. Scammell, 2 screw pr., cap. 40 T. Storage cap. 1,150,000 bu. Producers 41% soybean meal; Producers and Co-Op Open Formula mixed feeds and pellets. Served by SLSF, ATSF RR.

Wichita 67214 — CARGILL INC., 1501 N. Mosley. Ph. 316-267-8800. (9) George Landsverk. 44% and 50% soybean meal and pellets. Served by MOP RR.

KENTUCKY

Louisville 40217 — RALSTON PURINA CO., Soybean Div. Ph. 502-637-4761. (5) R.J. DeFriest; (7) G.C. Howell; (9) S.L. Colthurst.

Owensboro 42301 — OWENSBORO GRAIN CO. Ph. 502-926-2032. (1) Robert E. Hicks; (2) Henry E. O'Bryan; (3) James L. Monarch Jr.: (7) Raymond Schrecker; (8) Kelly Price. Solv., cap. 1,000 T. Storage cap. 3,000,000 bu. Ograco 44% and 49% solv. soybean meal.

LOUISIANA

Destrehan 70047 — BUNGE CORP. Ph. 504-721-6291. Home Office: One Chase Manhattan Plaza, New York, NY 10005. (5, 8) Archie Gwathmey; (7) Dick Farmer. Served by IC RR.

MARYLAND

Salisbury 21801 — PERDUE INC., P.O. Box 1537. Ph. 301-742-7161. (1) Donald W. Mabe; (2) Thomas R. Shelton; (4) Pelham B. Lawrence; (5, 6, 8) Seth C. Taylor; (7) Harold T. Shockley; (2, 9) Sewell L. Spedden.

MINNESOTA

Dawson 56232 — DAWSON MILLS. Ph. 612-769-4386. Telex 290838. (1) Joe C. Givens; (5) Harold Larson; (6, 8) Dave Owen; (7) L. Kockelman; (9) H.G. Jordheim, v.p. of operations; D.E. Crisp, v.p. food division. Hexane solv. capacity 1,500 T. Storage capacity 3,000,000 bu. Dawson soybean meal. Served by CNW RR.

Mankato 56001 — ARCHER DANIELS MIDLAND CO., P.O. Box 728. Ph. 507-587-7947. (5, 8) Dave Bednar; (7, 9) Lee Paulsen. Hexane solv. Archer 44% and 48½% soybean meal. Served by CNW, MILW RR.

Mankato 56001 — HONEYMEAD PRODUCTS CO. Ph. 507-625-7911. (1, gen. mgr.) L.K. Rasmussen; (2, exec. v.p.) Ray Lindquist; (2, 3) Harold Groh; (2, 6, sr. v.p.) Stanley V. Eichten; (2, 8, sr. v.p.) Wayne Umhoefer; (2, 5) Gaylen Ferley; (7) C. Herbst; (2, 9, sr. v.p.) James Amlie. Hexane solv., cap 2,400 T. Storage cap. 3,000,000 bu. Honeymead soybean meal. Served by CNW, MILW RR.

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Plants at Osceola, AR; Gainesville, GA; Chicago, IL; Cedar Rapids, Des Moines, Redfield, Sioux City and Washington, IA; Wichita, KS; Savage, MN; Fayetteville, NC; Sidney, OH; Memphis, TN; and Norfolk, VA. (1) M.D. McVay; (2) D.H. Leavenworth, J.R. Spicola; (3) C.J. Anderson; (4) Benjamin Jaffray.

Red Wing 55066 — ARCHER DANIELS MIDLAND CO., P.O. Box 17. Ph. 612-388-7111. (5, 8) Tom Brokl; (7, 9) Dick Gerschnied. Served by MILW RR.

Savage 55378 — CARGILL INC. Ph. 612-894-3190. Main office: Minneapolis, MN. (7) John Ryan; (9) Dick Emmerich. Hexane solv. Cargill soybean meal. Served by MN&S RR.

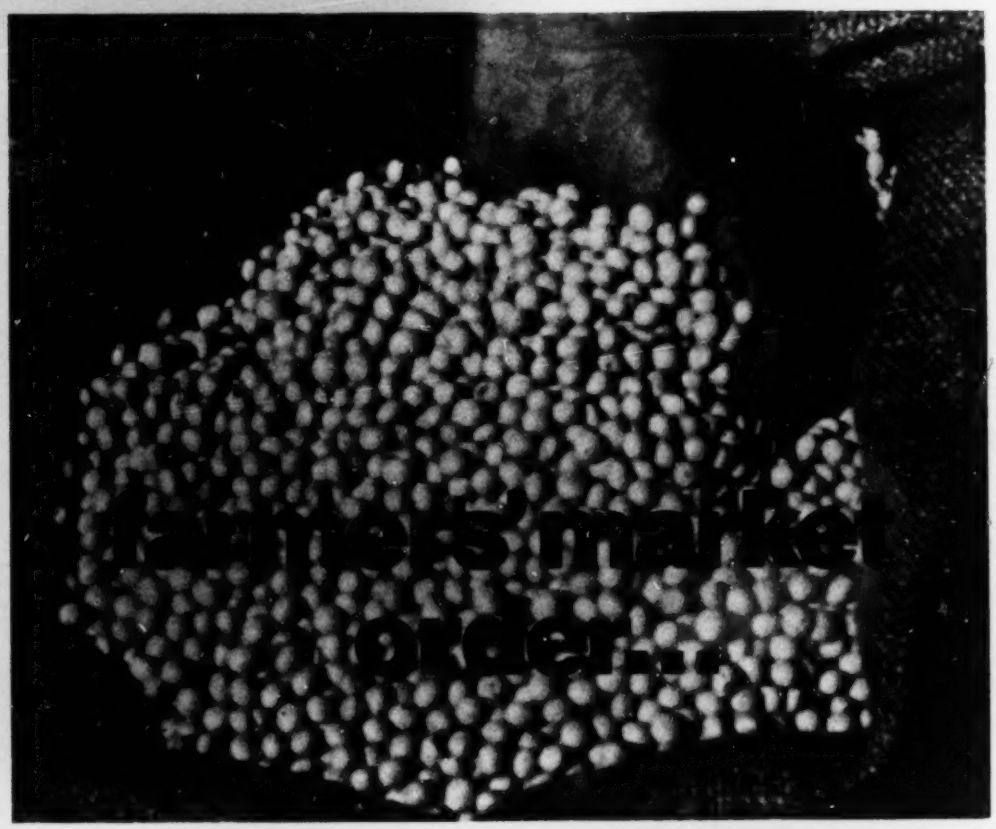
MISSISSIPPI

Clarksdale 38614 — PLANTERS MFG. CO. Ph. 601-624-2571. (1) E.L. Anderson Jr.; (2) W.S. Heaton Jr.; (3, 4) R.H. Owen Jr.; (5, 6, 9, exec. v.p. and gen. mgr.) J.H. Payne; (7) Jack Jennings. French and Crown solv., cap. 900 T. Storage cap. 1,750,000 bu. 44% protein solv. extracted soybean meal. Served by IC RR.

Greenwood 38931 — MISSISSIPPI COTTONSEED PRODUCTS CO. (7) J.H. Wilburn; (9) E.C. Mason. Solv. cap. 100 T Storage cap. 250,000 bu. Soybean operations 10,000 T. Served by IC RR.

Greenwood 38930 — YAZOO VALLEY-MINTER CITY OIL MILL INC., P.O. Box 1320. Ph. 601-453-4312. Chm. Aven Whittington; vice chm. R.A.

BEST AVAILABLE COPY



sell 13.9 billion bushels of grain

American farmers harvested almost 14 billion bushels of grain last year. . . far more than we can consume at home.

This amazing productivity creates a huge market sell order. . . and makes world grain markets more important than ever to farmers, our economy, and our balance of payments. Our worldwide merchandising service offers farmers a reliable entry into increasingly competitive export markets.

Dreyfus marketing staffs, grain elevators, rail and ocean transportation provide a vital link between growers here and consumers abroad.

From Windust, Washington to Tokyo. . . from Pekin, Illinois to Rotterdam, Rio de Janeiro, and other cities around the world, Dreyfus links producer and consumer.

To American farmers, Dreyfus offers the world.

LDC

LOUIS DREYFUS CORPORATION

24 Richmond Hill Avenue, Stamford, Connecticut 06904/203-357-8444

One State Street Plaza	1900 West 47th Place	880 Grain Exchange Bldg	1200 35th Street	101 St. Mary Street	200 S.W. Market Street
New York, NY 10004	Shawnee Mission, KS 66205	Minneapolis, MN 55415	West Des Moines, IA 50265	Pekin, IL 61554	Portland, OR 97201
(212) 943-1515	(913) 362-7700	(612) 338-0693	(515) 225-9211	(309) 348-2123	(503) 243-1133

Offices throughout the world

Carson; (1 and gen. mgr.) T.S. Shuler; (2, 4) Robert H. Howard; (2) W.P. Hayne; (3) George W. Smith Jr. Greenwood plant solv. cap. 600 T. 44% soybean meal. Minter plant solv. cap. 200 T. 44% solv. meal. Served by IC&C RR.

Grenada 38901 — MISSISSIPPI COTTONSEED PRODUCTS CO. (7) Frank Joyner; (9) C.C. Perry. 2 exp., cap. 50 T. Storage cap. 3,000 T. Soybean operations 2,000 T. Served by IC RR.

Hollandale 38748 — MISSISSIPPI COTTONSEED PRODUCTS CO. (7) W.E. Campbell; (9) Hal Harris. Solv. cap. 100 T. Storage cap. 250,000 bu. Soybean operations 7,000 T. Served by IC RR.

Jackson 39205 — ANDERSON, CLAYTON & CO., Oilseed Processing Div., P.O. Box 1410. Ph. 601-948-5880. Home office: Anderson, Clayton & Co., Oilseed Processing Div., Phoenix, AZ 85062. (7) R.R. Rush; (9) Jim Brady. Solvent. Paymaster 48.5% and 44% protein soybean meal, also soybean mill run. Served by IC, GM&O RR.

Jackson 39205 — MISSISSIPPI COTTONSEED PRODUCTS CO., 1016 Plaza Bldg., general offices. Soybean crushing mills at Greenwood, Grenada, Hollandale and Jackson, MS. (1) H.E. Covington; (2) J.B. Perry Jr.; (3, 4) G.C. Perry.

Marks 38646 — GOLD KIST SOY, Box 249, Ph. 601-326-2411. Complex Manager, W. P. Hudson; (5) J.E. Sanders; (8) D.H. Price; (9) W.M. Harris; Refined Oil Manager, C.N. Lindsey, Refinery Manager, Rick Shobaken.

Tunica 38676 — PLANTERS OIL MILL. Ph. 601-363-1121. (1, 5, 6, 8) R.B. Flowers; (3, 4) Winnie Flemmons. Storage cap. 350,000 bu. Served by IC RR.

Vicksburg 39180 — ANDERSON, CLAYTON & CO., Oilseed Processing Div., P.O. Box 1378. Ph. 601-638-3824. Home office: Anderson, Clayton & Co., Oilseed Processing Div., Phoenix, AZ. Dist. mgr. soybean operations, D.K. Smith; (5) Ray Weir; (7) Noel M. Jackson; (8) Wayne Pierce. Solv. Paymaster 44% protein meal, also soybean mill run. Served by IC RR.

MISSOURI

Kansas City 64120 — RALSTON PURINA CO., 2334 Rochester Ave. Ph. 816-483-9888. Main office: St. Louis. (5) G.E. Meyer; (7) C.G. Kuhlman; (9) R.K. Zimmerman. Purina Chows mixed feeds.

Mexico 65265 — M.F.A. GRAIN MARKETING DIV., Missouri Farmers Assn. Inc. Ph. 314-581-4195. Telex 1-910-760-1527. (1) Erick Thompson; (2) Otto Schulte; (3) Robert Maupin; (5) William King; (6, 9) Kermit F. Head; (7) John A. Botkin; (8) Max Jamison. Solv. cap. 1,500 T. Storage cap. 3,100,000 bu. M.F.A. 44% and 49% soybean meal, soybean mill run and soy lecithin. Served by N&W, ICG BN RR.

N. Kansas City 64116 — ARCHER DANIELS MIDLAND CO., 200 W. 19th Ave. Ph. 816-221-2117. (5, 8) Everett Fletcher; (7, 9) Gene Smith. Solvent extraction. Archer 44% and 47% soybean meal. Served by BN RR.

St. Joseph 64502 — FARMLAND INDUSTRIES INC., P.O. Box 427. Ph. 816-233-6161. Office: 3315 N. Oak Trafficway, Kansas City 64116. (1) John Anderson; (2) Donald M. Chartier; (3) W. Gordon Leith;(4) Earl L Knauss; (5) Wayne Stegman; (6, 8) Ed Stigall (7) Max Tetlow; (9) John A. Dotson. Hexane solv. cap. 950 T. Co-op 44% and 48½% soybean meal. Also soybean flour & grits. Served by MP, BN, ATSF, CNW, UP RR.

St. Louis 63188 — RALSTON PURINA CO., Checkerboard Square. Plants at Lafayette, IN; Bloomington, IL; Iowa Falls, IA; Kansas City, MO; Memphis, TN; Louisville, KY; and Raleigh, NC. (2) E.J. Cordes; (6) A.I. Gleason; (8) W.W. Sims. Purina Chows mixed feeds.

NEBRASKA

Fremont 68025 — ARCHER DANIELS MIDLAND CO., 130 N. Broad. Ph. 401-721-5670. (5, 8) Randall Neumayer; (7, 9) Larry Letterman. Hexane solv. Archer 44%. Served by CNW RR.

Lincoln 68529 — ARCHER DANIELS MIDLAND CO., P.O. Box 29268, Havelock Sta. Ph. 402-464-9131. (5, 8) Tony Porter; (7) Charles Hagood; (9) Jim Yeates. Hexane solv. Archer 44% and 47% soybean meal. Served by BN RR.

West Point 68788 — GRAIN STATES SOYA INC. P.O. Box 157. Ph. 402-372-2429. (1) Paul Hugo; (2) Clifford L. Johnson; (3) Aelred Hugo; (4) John Lubker Jr.; (5, 6, 8) Mark R. Knobbe. 4 French screw pr., cap. 100 T. Storage cap. 152,000 bu. 41% soybean meal. Custom mixed feeds and pellets. Served by CNW RR.

NEW YORK

New York 10017 — CONTINENTAL GRAIN CO., 277 Park Ave., Ph. 212-826-5100. Plants at Guntersville, AL; Taylorville, IL, and Cameron, SC. (2) J.G. Reed; (6) D. Provda; (8) G. Bryant.

NORTH CAROLINA

Fayetteville 28302 — CARGILL INC., P.O. Box 2309. Ph. 919-483-4631. Main office: Minneapolis, MN. (7) Jim Roehr; (9) Flint Harding. 44% and 50% soybean meal, refined and crude soy oil. Served by ACL RR.

Raleigh 27601 — RALSTON PURINA CO. Ph. 919-828-4491. (5) J.W. Wagnon; (7) D.G. Torgerson; (9) D.T. Fink.

Rocky Mount 27801 — PLANTERS OIL MILL INC., P.O. Drawer 2507. Ph. 919-442-0193/4. (1) Ron Garwood; (4) McNair Evans; (2, 6) W.L. Adlock, Jr.; (3) Murphy Evans; (7) John Riley. Solv. cap. 200 T. Storage cap. 650,00 bu. Planters soybean meal. Served by SCL RR.

Selma 27576 — GURLEY'S INC., 404 E. Preston St., P.O. Box 388. Ph. 919-965-2302, 800-672-8131, 800-334-9631. (1, 6, 9) R.G. Gurley; (2, 5, 6, 8) Raymond Gurley II, Jackie Whitley; (3, 4) Carl R. Gurley Sr.; (7) Bob Gurley. Crown and Anderson extractors. Solv. cap. 300 T. Storage cap. 950,000 bu. Gurley's 44% soybean meal and pellets, 47% Hy Protene soybean meal. Served by SCL Southern RR.

OHIO

Bellevue 44811 — CENTRAL SOYA, P.O. Box 369, Goodrich Rd. Ph. 419-483-5340. Main office: Fort Wayne, IN. (9) Leonard Morrison. Soybean meal. Centrol and Centrolex lecithins, crude degummed soy oil and industrial soy oils.

Cincinnati 45201 — BUCKEYE CELLULOSE CORP. Main office. (2) G.A. Heinz.

Delphos 45833 — CENTRAL SOYA, 234 S. Jefferson St., P.O. Box 231. Ph. 419-692-6010. Main office: Fort Wayne, IN. (9) Chuck Janiszewski. Soybean meal and crude soy oil.

Fostoria 44830 — A.E. STALEY MFG. CO. Main office: Decatur, IL. (9) D.D. Houghton; (7) R.A. Dixon. Staley's soybean meal 44% and 49% protein; Staley's soybean mill run.

Marion 43302 — CENTRAL SOYA, 751 E. Farming. Ph. 614-383-1181. Main office: Fort Wayne, IN. (9) Robert Prescott. Soybean meal, Centrol lecithin, crude degummed soy oil.

Sidney 45365 — CARGILL INC., 2400 Industrial Blvd. Ph. 513-498-4551 (7) Al Wilcox; (8) Cornelius Boersma. Hexane solv. Cargill soybean meal. Served by Conrail and C&O.

OKLAHOMA

Muskogee 74401 — COLE GRAIN CO., 919 S. Cherokee, P.O. Box 1289. Ph. 918-687-7565. (1,5) J.D. Cole; (2, 8) D.R. Cole; (3, 4) Olivia Cole; (7) Dan Bryan. 2 exp., cap. 70 T. Storage cap. 400,000 bu. Cole Feeds soybean meal, mixed feeds and alfalfa pellets. Approximate soybean operations 10,000 to 12,000 T. Served by MKT, TP, SLSF RR.

Oklahoma City 73126 — PRODUCERS COOPERATIVE OIL MILL, P.O. Box 26907. Ph. 405-232-7555. Gen. mgr. T.W. Detamore. Crown solv. cap. 500 T. Storage cap. 800,000 bu. Pellets. Served by SLSF RR.

SOUTH CAROLINA

Cameron 29030 — CONTINENTAL GRAIN CO., 277 Park Ave., New York, NY. Ph. 803-823-2211. (5, 8) R. Arrant; (9) W. Sim.

Estill 29918 — SOUTHERN SOYA CORP. Ph. 803-625-2711. Stiles M. Harper; (3, 8, 9, exec. v.p. and gen. mgr.) R.A. Denman; (7) H.R. Youmans. French solv., cap. 300 T. Storage cap. 2,250,000 bu. 44% and 49% soybean meal. Soybean operations 2,500,000 bu. Served by SCL RR.

Hartsville 29550 — HARTSVILLE OIL MILL, Fifth St. Ph. 803-332-1571/2/3/4. (1, 4) Edgar H. Lawton Jr.; (2) R.R. Coker; (2, 5, 6, 8) R.A. Koppein; (2, 3, 9) J.J. Lawton; (7) Charles Sullivan. Hartsville 44% and 50% soybean meal. Served by SCL RR.

Kershaw 29067 — ARCHER DANIELS MIDLAND CO., 427 N. Hampton. Ph. 803-475-3751. (5, 8) William Goodsen; (7,9) Roger Cauthens. Hexane solv. Archer 44% and 48% soybean meal. Served by SOU.

TENNESSEE

Chattanooga 37406 — CENTRAL SOYA, Judd Rd., P.O. Box 5067. Ph. 615-629-7341. Main office: Fort Wayne, IN. (9) Larry Horn. Soybean meal, Centrol lecithin, crude soy oil. Refined industrial and eduble vegetable oils.

Memphis 38117 — BUCKEYE CELLULOSE CORP. (5,8) G.B. Cochran; Dist. mgr. G.H. Riley; (7 Hollywood mill) W.L. Blankenship.

Memphis 38101 — CARGILL INC., P.O. Box 1838. Ph. 901-775-3700. (7) Harry Bryant; (9) Robert W. Drake. Hexane solv. Cargill soybean meal. Served by SLSF, IC, MP RR.

Memphis 38112 — RALSTON PURINA CO., Soybean Div. Ph. 901-327-8447. (5) R.M. Joiner; (7) R.C. Haendiges; (9) J.K. Sartain.

Nashville 37202 — NASHVILLE OIL MILL CORP., 410 Chestnut St. (1) S.H. Ridens; (2,5,6,9) Douglas Rainwater; (3,4) Allen Searson; (7) Bennie Franks; (8) Jerry Walrond. Blaw-Knox solv., cap 200 T. Storage cap. 525,000 bu. Served by N&C, L&N RR.

Tiptonville 38079 — WEST TENNESSEE SOYA MILL INC. Ph. 901-253-7162/7211. (1) W.B. Keiser; (2) L.O. Brayton Jr.; (3, 4) Robert Henley; (5, 6, 8, 9) Tyler Terrett; (7) Robert Hayes. Allis-Chalmers hexane solv., cap. 150 T. Storage cap. 1,200,000 bu. 44% protein solv. ext. soybean meal. Soybean operations 40,000 T. Served by IC RR.

TEXAS

Lubbock 79408 — PLAINS COOPERATIVE OIL MILL INC. 2901 Ave. A, P.O. Box 1889. Ph. 806-747-3434. (1) M.J. Williams; (2) Keith Streety; (3) Jack Sebastian; (4) Wayne Martin; (5,6,8) Bruce Crosslin; (7) Bob Thomas; (9 gen. mgr.) Edward Breihan. Solv. cap. 1,200 T. Storage cap. 500,000 bu. Plainsman soybean meal. Soybeans part-time. Served by FW&D RR.

Sherman 75090 — SHERMAN OIL MILL, affiliate of Chickasha Cotton Oil Co. Ph. 214-892-9171. Also office at Fort Worth. Ph. 817-732-8595. (1) Jack N. Greenman; (2) Rex Steele; (3,4) J.W. Ward; (5,6,8) J.D. Morton; (7) Gilford Lyday; (9) Reed Bell. 7 screw pr., solv. cap. 240 T. cottonseed, 200 T. soybeans. Served by SP, CB, SLSF, MKT RR.

Wolfe City 75496 — NE-TEX COOPERATIVE OIL MILL. Ph. 214-496-2281. (1) Emory Knapp; (2) W.E. Malone; (3) J.J. Poston; (4,5,6,8,9) B.W. Heath; (7) Jimmy Hester. Solv. cap. 250 T. Storage cap. 650,000 bu. Ne-tex soybean meal, mixed feeds and pellets. Approximate soybean operations 15,000 T. Served by ATSF RR.

VIRGINIA

Chesapeake 23324 — CARGILL INC., P.O. Box 7506. Ph. 804-545-8461. Main office: Minneapolis, MN. (7) Ray Osberg; (9) John March. Hexane solv. Cargill soybean meal. Served by N&PB RR.

There's a Bunge elevator near you to give you top dollar for your soybeans

Bunge is one of the nation's leading exporters of soybeans, soybean oil and soybean meal. Because we do such a large volume of business, we're in the market for soybeans 365 days a year. And we pay the best possible price for your beans—by the truckload or by the carload!

We also pride ourselves on our service. Each of our elevators is run by professionals who know market conditions . . . make sure that you're unloaded swiftly . . . and see that you're paid promptly.

Where to Sell

Bunge Corporation has elevators strategically located throughout soybean country in Arkansas, Mississippi, Louisiana, Kentucky and Tennessee with district headquarters in Greenville, Mississippi, and Osceola and Pine Bluff, Arkansas.

Other Bunge offices service farmers in Southern Illinois and Eastern Missouri as well as soybean growers in other sections of the United States.

Remember . . . if you want the best in price and service, see Bunge before, during or after the harvest season.

BUNGE CORPORATION

One of America's leading exporters of soybeans

One Chase Manhattan Plaza, New York, N.Y. 10005

non-U.S. processors

Officers of firms are listed as follows: (1) president; (2) vice president; (3) secretary; (4) treasurer; (5) head soybean buyer; (6) oil sales manager; (7) plant superintendent; (8) meal sales manager; (9) plant manager. Type of processing equipment, tons per day, processing capacity, total storage capacity, phone numbers and railroads serving the individual plant are listed. Information was obtained through questionnaires sent directly to processing companies. These listings are as complete as it was possible to assemble. They contain all available information but the publishers of the **Soya Bluebook** will not be responsible for any omissions which may have been unavoidably made. Established policy of some firms makes unavailable more complete information than is carried in this directory.* Updated for 1980.

ARAB REPUBLIC OF EGYPT

Alexandria — AL ARZ INDUSTRIES FOR VEGETABLE OILS & DERIVATIVES, West Noubariah Canal, P.O. Box 1984. Ph. 803373 Alexandria. Telex 54214 SINNO UN. (1) Mohamed Arslan Sinno; (2) Ayman M. Sinno; (3) Yehia el Tawil; (4) Salah B. Moustapha; (5) Mouhamed Arslan Sinno; (6) M. Sinno; (7) Y. Tawil; (8) A. Sinno; (9) Ayman M. Sinno; other officials: Amira M. Sinno. Rotocel solv. ext. cap. 300/350 MT. Storage cap. 25,000 MT. 44% and 48% soybean meal, fully refined liquid soy oil. Served by Noubariah Canal. *

Moharram Bey — EXTRACTED OILS & DERIVATIVES CO., affiliate of Egyptian General Organization for Food Industries. Office: Canal Mahmoudia St., Alexandria. Ph. 26199. Telex 54015 UN. (1) Eng. Osman Rifaat. De Smet solv., cap. 350 T. Storage cap. 110,000 bu. Approximate soybean operations 60,000 T.*

non-U.S. processors . . .

ARGENTINA

Buenos Aires — SANTO PIPO TUNGOIL SOC-COOP. LTDA., Florida 142, Piso 3-A. Ph. 17 de Santo Pipo — Misiones Argentina. (1) Juan Girsberger; (2) Dr. Raul V. Comolli; (3) Lorenzo W. Zimmerman; (4) Luis Romeo Barrios; (6, 8) Fed. Coop. Agr. Misiones; (7) Gunter Schultz; (9) Ing. Victor V. Borkoski. 2 exp., cap. 180 T. De Smet solv., cap. 180 T. Storage cap. 25,000 T. Soy protein concentrate, flakes and meal. Served by Ferrocarril Nacional General Urquiza.

Santo Pipo (MS) 8 — SANTO PIPO TUNGOIL SOC. COOP. LDA., Casilla Correo 6. Ph. 17. (1) Juan Girsberger; (2) Raul V. Comolli; (3) Lorenzo W. Zimmerman; (4) Alejandro C. Stockar; (7) Otto Pigerl; (9) Carlos Clerc. De Smet solv., cap. 240 T. Storage cap. 4,000 T. Soybean meal and soy flour. Manufactures mixed feeds and pellets. Approximate soybean operations 30,000 T.

AUSTRALIA

Kogarah N.S.W. — BARTON ADDISON & SONS PTY. LTD., P.O. Box 51, 18 Gray St. Ph. 587-0457. (1) J. Ackroyd. 3 exp., cap. 10 T. Addison soybean meal and soy flour. Served by NSW RR. *

Narrabri West, N.S.W. 2391 — NORTH WEST VEGETABLE OILS PTY. LTD., subsidiary of Cargill Inc., Minneapolis, MN, Baranbar St. Ph. 067-92-2711. Telex 66564. Chm. of dir., H.D. Boone; gen. mgr., D. Bacon-Hall; merchant, I. Hillam; (7) J. Grayson; Exec. Ass. to G. Mgr, C. Creal; finance mgr., J.F. Groenendyk. Prepress combined with Crown solvent extraction, 500 MT per day. Storage cap. 46,000 MT. High protein soybean meal, crude degummed and alkali refined soy oil. Approximate soybean operations 65,000 MT, 40% per annum. Processes soybeans, cottonseeds, sunflowers and safflowers.*

Sydney, N.S.W. — MEGGITT LIMITED, 44 Liverpool Rd., Summer Hill. Plants at Sydney (N.S.W.), Melbourne (Vic.), Brisbane (Q.L.D.). Ph. 798-7555. Telex: AA24510. Chm. of dir., A.W. Barr; Chief Exec. A.D. Rector; (3) finance dir., O.S. Dixon; marketing mgr., B.I. Bell; technical mgr., B. Lathlean. 3 solvent extraction plants, 950 MT cap. per day. Storage cap. 850,000. Approximate soybean operations 80,000 MT.*

Victoria — SOY PRODUCTS OF AUSTRALIA PTY. LTD., 69 Power Rd., Bayswater, P.O. Box 66. Ph. 72-91738. (3, 4) B. Smith; (5 and mgr. dir.) V.R. Smith; (7, 9) A.R. Smith. Storage cap. 20,000 bu. Manufactures Soyvita full-fat soy flour. Approximate soybean operations 50%. Served by Victorian RR.

BELGIUM

Antwerp 2030 — SARANDI N.V., Docks 506. Ph. office, plant 41-00-07. Telex 33761. De Smet solv., cap. 1,500 T. Storage cap. 1,000,000 bu. Sarandi soybean meal. Own wharf with a draft of 42-ft.*

Izegem — N.V. VAMO MILLS, Prins Albertlaan, 12. Ph. 051-30-22-22. Telex 81622. (1) Raymond Vandemoortele; (2) Jean Vandemoortele; (5, 6, 8) Fred Deroost. Plants in Izegem, Merksem and Gent. Hexane solv., cap. 5,100 T. Storage cap. 2,700,000 bu. Served by NMBS RR. *

B 9690 Kluisbergen-Ruien — SCALDISWERKEN RUIEN N.V., 17, Avelgemstraat. Ph. 055-388412/13. (1, 6) Albert Windels. 12 exp., storage cap. 50,000 bu., cap. 1 T. Scaldis mixed feeds. Served by Oudenaarde-Herseaux RR. *

BOLIVIA

Cochabamba — CIA OLEAGINOSA LTDA., KM. 8½ a Quillacollo, Casilla 382. Ph. 40239. Mgr., Jose H. Guzman; 3 exp./screw press, cap. 18 T. Batch solv., cap. 15 T refinery 10 T. Soybean and cottonseed storage cap. 3,000 T. Approximate soybean operations 1,500 MT/year and cottonseed operations 1,500 MT/year. Served by Cochabamba-Orur.*

Santa Cruz — INDUSTRIAS DE ACEITE S.A., P.O. Box 1759, Offices: Ballivian 262, Ph. 47008. (1) J.A. Gonzales; (2) R. Verona; (4) E. Anaya; (6) O. Barriga; (7) A. Malatesta; (9) O. Unzueta. 3 exp./screw press, cap. 60 T., storage cap. 10,000 MT. Soy flour. Approximate soybean operations 15,000 MT/year. Served by Bolivian RR.*

Villamontes Tarija — FABRICA DE ACEITE VILLAMONTES RAFAEL DEHEZA, affiliate of Corporacion Boliviana de Fomento. Office: Ave. Camacho 1485 Edif. La Urbana, P.O. Box 1124, La Paz. Ph. 2495750877-52594 (CBF). Telex Bx. 5263 CORFOMENTO. (4) Lic. Franklin Anaya Vasquez; (5, 6, 8) Ing. Jorge Rada Arroyo; (7) Ing. Benjamin Grossman. Solv., cap. 200T. Storage cap. 18,000 MT. El Rey soy oil, Soyflour CBF. Approximate soybean operations 6000 MT/year. Served by Santa Cruz, Villamontes Yacuiba Pocitos (Argentina) RR. *

BRAZIL

Campinas, SP — ADM DO BRASIL TVP-TECNOLOGIA EM VEGETAIS E PROTEINAS S.A., C.P. 632 — CEP 13100. Cx. Postal 632. Ph. 2-09-89. Telex 019 1221. (1) J. Lindsay; (2) T. Moore; (4) H. Ikeda; (5) L. Camara; (9) Luzer Manczyk. Crude and refined oil, meal, textured vegetable protein and flour.

Campinas, S.P. — CIA. SWIFT DO BRASIL S.A. Ph. 3921/2/3. Affiliate of International Packers Ltd. Head office: Rua Formosa, 367, Ninth floor, Sao Paulo. (7) F.T. Dawe; (8) E.F. Roman; (9) R.H. Welker. 2 highspeed exp., cap. 180 T; solv., cap. 150 T. Storage cap. 400,000 bu. Swift-Plate soybean meal, Swift mixed feeds. Soybean operations 8,000 T. Served by Paulista-Mogiana-Sorocabana RR.

Campo Real, RGS — COOPERATIVA TRITICOLA MISTA ALTO JACUI LTD., COTRIJAL, Rua Dr. Liberato Salzano 1,99.470 Nao me Toque, Rio Grande do Sul. CGCME 91 495 549/0001-50, Inscr. Estadual 081/000 2930, Cx. Postal No. 2. Ph. 277 e PABX 201, 202, 203, 400 e 444. Endereco telegrafi — co-COTRIJAL. (1) Irmfried O.I.H. Schmiedt; (2) Adelar da Cunha; (3) Norberto Barth; (4) Eloi Berres; (7) Madar Piva.

Cruz Alta, RGS — ANDERSON CLAYTON S.A., Estr. do Aeroporto s/n, Caixa Postal 61. Other locations: Rua da Consolacao, 155, Birigui, SP; Rua Santa Terezinha, 1164, Londrina, PR; Av. Jose Jorge Estevam s/n, Paraguacu, SP.

Frederico Westphalen, RGS — OLEOS VEGETAIS TAQUARUSSU S/A, Cx.P. 14. Ph. 157. (1, 6) Lindo Angelo Cerutti; (2) Dr. Ennio F. Andrade; (3) Sadi

Zanchet; (4) Claudino Balestrim; (7) Placido Zanchet; (9) Antoninho Toldo. 4 exp., cap. 25 T; solv., cap. 20 T. Storage cap. 3,600 T. Alto Uruguai soybean meal, Taquarussu mixed feeds. Approximate soybean operations 9 months.

Ijui, RS — CONTRIJUI COOPERATIVE REGIONAL TRITICOLA SERRANA LTDA., Rua das Chacaras n° 1513, Cx. Postal III. Ph. 2159/63,3277. Telex 0552199.

Maringa, Parana — CIA. NORPA INDUSTRIAL.

Passo Fundo, RGS — COOPERATIVA TRITICOLA DE PASSO FUNDO LTDA., Av. Presidente Vargas, 100. Cx. Postal 162. Ph. PABX-2381. Telegraph COMPASSO-PASSO FUNDO-RS-BRASIL. Telex 0542151.

Porto Alegre, RGS — FECOTRIGO, Rua Gen. Andrade Neves 106, Cx. Postal 2679, Ph. 25-4022. Telex: 051-1331. Soybean crushing 1,500 T. per day

Porto Alegre — INCOBRASA, Industrial e Comercial Brasileira S.A., Edificio Formac, 24th floor. Ph. 24-3372, 21-9249, 21-7014. Telex (051) 1777 INBR BR. Plant at Rua Hermes da Fonseca, 2255, Vila Rio Branco, Canoas. Dir. Diego Blanco; (5, 6) Kwang Chen Hsieh; (4) Armando Giampaoli da Silva; (7) Arthur Souza Warth; (8) John Chang; Akira Uchida. Solv., cap. 800 T. Storage cap. 90,000 T. Incobrasa soybean meal and soy flour, Santa Rosa edible soy oil, fluid lecithin, soy grits, toasted soybean pellets. Approximate soybean operation 600-800 T/day.

90.00 Porto Alegre, RGS — FECOTRIGO, Rua Gen. Andrade Nevas 106. Cx. Postal 2679. Ph. 25-4022. Telex. 0511331. (9) Alberi Ferreira Pires. Cap. 1500 T./day.

Porto Alegre, RGS — MERLIN S/A IND. e. COM. DE OLEOS VEGETAIS, Av. Dique, s/n. Caixa Postal no.s 2772 e 10,001. Porto Alegre, RS, 90,000. Telex 051-1053 MERL.

Porto Alegre, RGS — S/A MOINHOS RIO GRANDENSES (SAMRIG), Rua da Conceicao, 195. Ph. 24-1033, 24-1922. Telex 028778 Samrig Pae. Dir. gen., Duilo Fossati; (4) Antonio Carlos M. da Silva; (5, 8) Carlos Goidanich; (9) Eduardo Scheidegger. Solv., cap. 600,000 T. Storage cap. 140,000 T. Protosam toasted soybean meal, Proteimax isolated soy protein, Primor edible oil and margarine, Lecsam lecithin, Glisam glycerin and soapstock and balanced feedings. Served by railroad (RFFS.A.).

Porto Alegre, RGS — OLVEBRA SA-INDUSTRIA E COMERCIO DE O OLEOS VEGETAIS, Praca Osvaldo Cruz N° 15-16° andar. Ph. 21.2200. Telex (051) 1225 OLVE BR. (1) Sheun Ming Ling; (2) Richard Tse. Directors: Paulo de Tarso Fontehla Barcellos, Igor Zinovief Kostolowicz, Martinho Clovis Camelo de Faria, Ary Dalmiro Nardin, Dauro da Rosa Pereira, Claudio Ballei and Antonio Rafael Pandolfi Irazu. Cap. 5,000 T/day. Refinery: 600 T/day. Storage cap. 280,000 T. Toasted soybean meal, soy oil crude, refined and edible oil, powder soyabean milk. Trademark "VIOLETA".

Rio Preto, S.P. — CIA. SWIFT DO BRASIL S.A., affiliate of International Packers Ltd. Ph. 1711, 2750. Head office: Rua Formosa, 367, Ninth floor, Sao Paulo. (7) F.T. Dawe; (8) E.F. Roman; (9) R.H. Welker. 4 high-speed exp., cap. 80 T. Storage cap. 300,000 bu. Swift-Plate soybean meal. Soybean operations 2,000 to 5,000 T. Served by Araraquara RR.

R. Pindal s/n, RGS — J. OSZOWSKI & CIA LTDA. (1) Isidoro Oszowski; (5, 6, 8) Z. Gorski; (7, 9) P. Oszowski; chem. eng., Carlos A. Oszowski. 2 exp., cap. 24 T. Storage cap. 12,000 bu. Crude oil without brand. Approximate soybean operations 10 months. Served by VFRGS.

Santa Mariana, Parana — SWIFT-ARMOUR S.A. INDUSTRIA e COMERCIO, BR-369 Rodovia melo Peixoto, Km. 73. Ph. 197 e 206. Head office: Rua Formosa 367-9 e 10 Andares, Sao Paulo. (5, 6, 7, 8, 9) R.C. Merino. 3 high-speed exp. cap. 200 T; solv. cap. 250 T. Storage cap. 600,000 bu. Swift-Plate soybean meal. Soybean operations 60,000 T. Served by Estrada de Ferro Parana-Santa Catarine-PR.

04711 Sao Paulo — BRASWEY S.A. INDUSTRIA E COMERCIO, Rua Enxovia, 423 (Sto. Amaro), Ph. 548-5144. Telex 011-22427. Cable BRASWEYCO. (1) Daniel Shu Chi Wei; Exec. dir., Benedicto Vanéziani, Emily Chen Su Yu Wei, Guengi Hokama, Joaquim Miro Neto, Liu Shun Ku, Yasuo Ogino. Cap., 3,500 T. Refinery cap 200T. Storage cap. 200,000 T. Trademark: OUROAZUL.

Sao Paulo — COMPANHIA MOGIANA DE OLEOS VEGETAIS, Av. Sete No. 2300 — orlandia — SP: Brasil. Ph. 016-726-2516 (PABX-5 troncos). Telex 0166445 CMOV. Dir. Octavio A. Caiuby Salles; (5) Donald Freitas; (6) Eduardo E. Miele; (7) Durval Rodrigues; asst. dir., Silvio Ferraz Pires. 1 exp., cap. 200 T; 2 solv., cap. 400 to 800; storage cap. 137,000 T. Served by FEPASA.*

Sao Paulo SP-BR — FUJIWARA HISATO S.A., Comercio e Industria, Rua Libero Badaro. 293, 27th floor. Ph. 229-1722. Telex 11-23226 FUHI-BR. Plants at Rod. Melo Peixoto, Km. 159-Trecho Londrina, Cambe-PR. Ph. 54-3638; Av. Jose Andraus Gassini, 2.464 Cidade Industrial, Uberlandia-MG. Ph. 47-160. (1) Washington Hatanaka; (2) Oswaldo Mitsuo Fujiwara, Joao Sacuda; (4) Ricieri Raphaelli; (5) Nelson Crepaldi; (6, 8) A. Jorge Cortellazzi; (7) Gothard Schoeps; (9) Antonio Dorival dos Santos at Cambe and Francisco Oliver Meronha at Uberlandia. 9 exp., cap. 900 T. 3 solv., 800 T. Storage cap. 4,500,000. Soybean meal and pellets. Served by FEPASA and RFF.*

Sao Paulo — SOC. ALGODOEIRA DO NORDESTE BRASILEIRO S.A. (SANBRA), Rua Boa Vista, 162-5o. a 15o., P.O. Box 8149, 01014 Sao Paulo. Telex (011) 23937. Cable SANBROIL.

Sao Paulo — SWIFT-ARMOUR S.A. INDUSTRIA e COMERCIO, Rua Formosa 367, 9 e 10 Andares. Ph. 35-6121/29. Cx. Postal 4210-Sao Paulo 01000. (1) F.L. Herbert; (2) D. Salva; (3) R.H. Paris; (4) N.M. Munhoz; (5, 6, 8) R.C. Merino.

CANADA

Altona, Man. — CSP FOODS LTD., P.O. Box 750. Ph. 324-6481. Telex 07-57556. (1) R.W. Siemens; (3) B.W. Gunn; (5) J.C. Friesen; (9) Menno Funk; location gen. mgr., Norman Buhr. Storage cap.

670,000 bu. Soybean, sunflower and rapeseed operations. Served by CP RR.*

Hamilton, Ont. — CANADIAN VEGETABLE OIL PROCESSING, Div. of Canada Packers Inc., Victoria Ave. & Burlington St. Ph. 416-527-9121. Telex 061-8315. (1,6) G.H. Vinall; (2,5,8) P.W. Glenney; (7) A. Bartens; (9) D. Little. Crown Blaw-Knox hexane solv., cap. 1,100 T. Storage cap. 700,000 bu. CVOP soybean meal. Served by CNR.*

Toronto M8Z 5W7, Ont. — MAPLE LEAF MONARCH CO., 365 Evans Ave. Ph. 416-252-5551. Telex 06-984560. Plant located Windsor, Ont. (1) W.G. Milliken; (2) M. Richardson; (3) R.E. Lennox; (4) K. Keune; (5) D.D. Wright; (6) W.M. Russell; (7) N. Schrakamp; (8) J.D. McNamara; (9) N.A. Pisano. Lurgi Hexane-Solv Cap 1,100 MT Prepress Lurgi Hexane Solv. cap. 280 MT Stor. Cap. 1,500,000 bu. Soybean, Flaxseed, Rapeseed, Sunflower operations serviced by Essex Terminal.*

Toronto M5A 1C2, Ont. — VICTORY SOYA MILLS LTD., 333 Lake Shore Blvd. E. Affiliate of Procter & Gamble Co., Cincinnati, OH. Ph. 416-363-8771. Telex 06-219812. Cable VICTORY-TOR. (2 and gen. mgr.) B.S. Aitken; (3 and comptroller) P. Shea; (4) K.J. Smith; (5,6) R.A. Watson; (8) C.M. Davis; (2,9) Wm. H. Wright. Served by CN, CP RR.*

CHILE

Rancagua — SUPER POLLO INC. CO., P.O. Box 13, Donihue. Ph. 24942 Rancagua 22-R Donihue. Plant at La Miranda, Rancagua. (1) Gonzalo Vial Via; (2) Gernando Salas Richaud; (4) Guillermo Galleguillos; (7) Teodomiro Garcia Soto; (9) Eduado Alcayaga Barraza. 2 exp./screw press, cap. 130 T. Storage cap. 2500 T. Super Pollo mixed feeds and pellets for company use.

Santiago — ACEITES Y ALCOHOLES "PATRIA" S.A., Huerfanos 812, 3er. Piso. Ph. 394255. Plant at Camino a la Costa s/n, Lontue. Ph. 394255. (1) Guillermo Marin; (3) Ramon Bou; (4) Juan Undurraga; (6,8) Mauricio Correa; (7) Mario Undurraga; (9) Guillermo De Martini Alvarez. Mgr. dir. Ramon Bou.*

Santiago — AGRO INDUSTRIAL MIRAFLORES S.A., Augustinas 1022, of. 823, Ph. 67102 & 62645. Telex: AIMSA 40953. Plants in Santiago, Talca and Temuco. Gen. Mgr. Raymundo P. Perez; (1) Jorge Correa Montt; Prod. Mgr. Rogelio Ortuzar Silva; Dep. Dir. Alfonso Correa Pero; (7) Arturo Nash Valenzuela.*

Santiago — COMPANIA INDUSTRIAL. Office: Huerfanos 812, 3er Piso. Ph. 394255. Plant at Temuco, Padre Las Casas. (1) Joaquin Figueroa; (2) Luis Bianchi; (3) Angel Meschi; (4) Juan Undurraga; (5) Ramon Bou; (6,8) Mauricio Correa; (7) Carlos Gomez Ayarzun; (9) Jose Gonzalez Briones; Sr. gen. mgr. Angel Meschi. 2 exp., cap. 200 T. De Smet solv., cap. 200 T. Storage cap. 1,000,000 bu. Chef, Cristal, Dos Banderas Oil. Approximate soybean operation 15,000 T. Rapeseed operation 5,000 T.*

Santiago — COOPERATIVA AGRICOLA AVICOLA SANTIAGO LTD. AVICOSAN, Avda. Central No 4051-La Valledor, P.O. Box 10080. Ph. 9881/3. Plant at Camino Melipilla 1630, Padre Hurtado. (1) Raul Fisher; (2) Luis Ladevig; (3,5) Andres Garces; (7) Vicente Correa G.; (9) Marcelo Ladevig M. Exp./screw press, cap. 24T. Storage cap. 5000 MT. Soybean meal, mixed feeds and pellets.*

Santiago — SOCIEDAD AGRICOLA KING LTDA., Irarrazaval 1951. Ph. 747362, 250580. (1) Jorge Garcia R.; (2) Enrique Celery; (3) Rodrigo Garcia R.; (7) Gerardo Rath W.; (9) Gonzalo Garcia R. King mixed feeds.

Talca — ACEITERA TALCA S.A. "ACEITAL", Casilla 20D. Camino Longitudinal Sur. Ph. 32163, 31855. (1) Jose Lobato Barrera; (2) Hernan Cruz Conna; (3) Ge. mgr. Rodrigo Vines L.; (4) Ricardo Vera; (6) Op. Mgr. Carlos Bayer; (7) Kurt Bolzmann; (8) Osvaldo Sazo. 3 exp., cap. 40 T; solv. cap. 30 T. Soybean and other oilseed storage cap. 10,000 T. Oro Vegetal soybean meal and soy flour. Approximate soybean operations 20%. Served by Ferrocarriles del Estado RR.*

COLOMBIA

Bogata — ACEITES Y GRASAS VEGETALES S.A. "ACEGRASAS", Aceites Del Tolima S.A., Carretera del Sur 57-21. Ph. 30-50-55. (1) Eduardo Bernal Arango; (2) Juan Manuel Posse M.; (3) Leon Perez Mejia; (5) Roberto Cuervo; (6, 9) Jose L. Florez; (7) Silvio Hernandez. Lurgi solv., cap. 50 T. Storage cap. 9,000 T. Pellets and soy flour.

Bogota — ACEITALES S.A., Calle 12 No. 37-19. Ph. 378555. Mgr. Ivan Hoyos R.; administrative mgr., Edgardo Baena. Exp., cap 100 T. Solv., cap. 220 T.

Buga-Valle — GRASAS S.A., Calle 11 No. 18-113. Ph. 2021/22/23. Telex 05866. (1) Jorge Duran; (3) Martha Ruiz; (4) Paulo Bernal; (5) Luis E. Aponte; (6,8) Alberto Angel; (9) Manuel Issa. 2 exp., cap. 200 T. Blaw-Knox solv., cap. 200 T. Storage cap. 1,600,000 bu. Supertorta de Soya soybean meal. Approximate soybean operations 48,000 T. Served by Ferrocarriles Nacionales del Pacifico RR. Exports through Buenaventura (75 miles).

Cali — LA AMERICAN GRASAS Y ACEITES COMESTIBLES S.A., Carrera 1B No. 47-12. Ph. 441021, 401527. Telex 055-706. (1) William Robledo C.; (4) Eveiro Marulanda; (5,8) Alonso Hoyos; (7) Omar Abadia; (9) Ivan Palacio. 2 exp., cap 24 T. Solv., cap. 70 T. Storage cap. 175,000 bu. La Americana soybean meal.

Cali — LLOREDA, GRASAS Y ACEITES VEGETALES S.A., Autopista Cali Yumbo Kilometro tres. Ph. 682111/19. Telex: 055-711 LLOGR CO, 055-170 LLOC CO, 044-506 LLOG CO. (1) Armando Lloreda Zamorano; (2) Alfonso Osorno Cujar; (4) Manuel Escobar; (5) Juan Manuel Cruz; (6) Ulpiano Lloreda Zamorano; (7) Gustavo Pauker (8) Guillermo Baron; (9) Antonio Leon Merino. 3 exp., cap. 60 T. Solv., cap. 400 T/day. Storage cap. 1,469,600 bu. Approximate soybean operation 70,000 T/year. Ocean port Buenaventura 120 km. Soybean meal. PROTARINA soy flour. OLEOCALI salad and cooking oils. MANTECALI shortening. NATURA margarine. Served by Ferrocarriles Nacionales RR.*

Medellin — GRASAS VEGETALES S.A., Carerra 51, No. 49-59, piso 10-Medellin, Box 5002. Telex 06-797. Plant at Sabaneta. Antioquia. (1) Luciano Elejalde Jaramillo; (2) Dr. Antonio Escobar Uribe; (3) Blanca Ruth Ortiz Uribe; (4) Marie Eugenia Bravo V., Gloria Castano M.; (5, 6, 8) Dr. German Castillo R.; (7) Dr. Gonzalo Quiros A.; (9) Dr. Bernardo Upegui A. 1 exp., cap. 30 T. De Smet solv., cap. 150 T. Storage cap. 5,000 T. Gravetal soybean meal. Approximate soybean operations 3,000 T monthly.

DENMARK

8100 Aarhus C — AARHUS OLIEFABRIK A/S, Bruunsgade 27. Ph. 06-12-60-00. Mg. dir., S. Chr. Mellerup; (5 and comm. dir.) H.F. Andersen; (8) J. Hoy Christensen. De Smet solv., cap. 1,200 T. Soybean meal. Soybean operations 250,000 T.*

2300 Copenhagen S. — DANSK SOJAKAGEFABRIK A/S, Islands Brygge 24. Ph. 1546600. Telex 31313. (1) F. Moerner; (4) M.T. Munch; (5,6,8) Mogens Kjaer; (7,9) Erik Brandt. Solv. cap. 1,000 T. Soybean meal. Soybean operations 250,000 T.*

DOMINICAN REPUBLIC

Santo Domingo — SOCIEDAD INDUSTRIAL DOMINICANA, C. por A., Ave. Maximo Gomez No. 182. Ph. 809-565-1323. (1) Enrique Armenteros; (2) J.M. Bonetti; Admin. Roberto Bonetti; Ass. Admin. Otto W. Bauer; (7) Rafael G. Zowe. 10 exp./screw press, cap., 200 MT. Storage cap. 370,000 bu. Ganadero Full-of-Pep mixed feeds. Soybean operations 40%.*

ECUADOR

Guayaquil — FABRICA DE ACEITES "LA FAVORITA" S.A., Francisco Marco 102, P.O. Box 486. Ph. 402840. (1) Xavier Vallarino; (2) Ing. Juan B. Vallarino; (5,8) Carlos Chiriboga; (6) Andrew Webb; (7) Antonio Figuerola; (9) Gustavo Fabara; Gen. mgr., Ernesto Noboa. De Smet solv., cap. 120 T. Storage cap. 8,600 MT. Locally and imported soybean operation.*

Guayaquil — OLEICA S.A., Km. 6½ Via a Daule, Casilla 3228. Ph. Conm. 351-300. (1) Clara Bruno de Piana; (2) Ana Maria de Estrada; (5,6,9) Ing. Luis Piana B.; (7) Ing. Molano (8) Ing. R. Reinoso. Econ. Fernando Ycaza and Ing. Diogenes Diaz. Solv., cap. 50 T/day. Storage cap. 180,000 bu. Manufacturers balanced rations. Approximate soybean operation 30%.

Manta — INDUSTRIAS ALES C.A., Casilla 4808. Ph. 610470 or 613577. (1) Cesar Alvarez Barba; (2) Francisco Uribe L.; mgr., Wolf R. Harten; gen. mgr., Patricio Alvarez Barba; (7) Jorge Appenzauser; (8) Oscar Bowen; (9) Cristobal Garcia Pena; chief engineer, Ing. Carlos Reyes; solv.-plant engineer, Ing. Roberto Mejia. De Smet solv., cap. 120T.*

ENGLAND

Basingstoke, Hants — BOCM SILCOCK LTD., Bocm Silcock House, Basing View. Chm. C. M. Jemmett. Seed, Oil and Cake Div. Sales mgr. W. Wren. Ph. Basingstoke 29211. Telex 858429. Extraction plant and vegetable oil refinery at Selby. Manufacture animal feeds.*

Bootle L20 IBG — CONTINENTAL (LONDON) LTD., Continental Grain Co., North Quay, North Gladstone Dock. Ph. 051-933-6561. Telex 628000. Solv. cap. 1,500 T. Storage cap. 300,000 bu. Contisoya brand.*

Erith, Kent DA8 1DL — ERITH OIL WORKS LTD., Church Manorway. Ph. 01-304-7111. Affiliate of Unilever Ltd. Directors: J.R.V. Greaves, B. Ellmann, S.T. Sanders. (5) Unilever; (6, 8) S.T. Sanders; (7, 9) J.R.V. Greaves. Solv., cap. 2,900 T. Erith Oil Works soybean meal. Served by road and sea.*

Hertfordshire — BRITISH SOYA PRODUCTS LTD., Puckeridge, nr. Ware, Herts. Ph. Ware 821291. Telex 81352. Jt. Mgr. Dirs., J.C. Wood & D.N. Hellier; (3, 5) J.T. O'Connor. Trusoy and Bredsoy soy flours, functional food ingredients and Bespro textured proteins.

Liverpool L37AW — J. BIBBY EDIBLE OILS LTD. 57 Great Howard St. Ph. 051-236-6671. D.L. Airey, managing dir.; M.M.M.F. McKenna, extract commercial mgr.; M. Bennett, refinery commercial mgr.; H. Nisted, extract prod. mgr.; P.T. Culshaw, refinery prod. mgr.; R.V. Crawford, technical & services mgr. Solvent extraction plant and refinery.

London — SOYA FOODS LTD., affiliate of Spillers French Milling Lt., New Malden House, 1, Blagdon Rd., New Malden Surrey Kt3 4TB, Ph. 01-949-2141/2. Telex: 896660. Plant at Jacob St., Bermondsey, London S.E. 1. Dir./Gen. mgr. M.A. Brown; mill mgr., B.A.F. Chivers. Storage cap. 40,000 bu. Soyolk and diasoy — full-fat soy flours, other bread improvers, Solus-T.S.P., and ice cream products.*

Manchester — THE BRITISH ARKADY CO. LTD., Arkady Soya Mills, Old Trafford, M160NJ. Ph. 061-872 7161/9. Telex 668488. (1) J.R. Mahlich; (3) R. Hobson: (7) R & D mgr., W. Pringle; Hi-Soy, Do-Soy and Arkasoy soy flour. Protein products, food additives and vegetable protein.*

FINLAND

Helsinki — OLJYNPURISTAMO OY, Niittaajankatu 1. Ph. Helsinki 780155. Telex 12-1518 (1) S. Laiho; (4) K. Wiitala; (5, 6, 8) P. Karri; (9) E. Tolvanen. 6 screw pr.; De Smet solv. extr. Soybean operations 60,000 T yearly. Served by Finnish State RR. Own port.*

Raisio — OY KASVIOLJY. Ph. Turku 921-780 311. Telex 62-236, rate SF. (1) Mauri Karvetti; (5, 6) Heikki Siintola. 4 exp., cap. 200 T; solv., cap. 180 T. Storage cap. 815,000 bu. Oil meals, vegetable oils, distilled fatty acids and byproducts.*

FRANCE

Brest-29200 — SOYA FRANCE S.A., Poullic Al Lor. Ph. 80.26.09. (1) D. de Clercq; (2, 3, 4, 5) I.L. Vermeeren; (6, 7, 8) W. Van Der Hoeven; (7) L. Rauli. Solv., cap. 1,200 T. Storage cap. 1,100,00 bu.

Marseilles — SOCIETE ANONYME DIETEBIOL, 116 Chemin du Rouet. Ph. 77-36-37, 77-31-66, 77-43-28. 5 exp., cap. 30 T; solv., cap. 20 T. Storage cap. 800 T.

non-u.s. processors . . .

Marseilles — UNIPOL S.A., 13, Rue Roux de Brignoles. Ph. 53-29-67. (1) Pres. J.L. Chancel.

75008 Paris — OLEAGRI, 12, Ave. George V. Ph. 359 54 10. Telex 641870. Plants located in Bordeaux. (1) Roger Petit; executive mgr., Michel Conchu. Cap. 350,000 T, storage cap. 50,000 T, oil storage 16,000 T. Served by rail, barge, sea and road.*

Paris 8 — ROBBE-HYFRAN S.A. Plant at Venette-Compiegne 60200 (420.99.30). (1) Emile Rastoin; (3) JJ. Bennasar; (5, 8) Rene Martin-Chave; (6) Fr.de Driesen; (7) Robert Massoni (9) Paul Droste. Exp. 250 T. Ext. 300 T. Storage cap. 6,500 T. Served by Paris-Bruxelles.

Paris 8 — SOCIETE INDUSTRIELLE DES OLEAGINEUX, 22, Rue Du General Foy, 75008 Paris. Ph. 522.88.40. Telex 280524 F. Plant at Saint-Laurent Blangy (Pas de Calais). (1) Joseph Tassy; (8) Guy Deneck; (9) Francosi Aussedat. De Smet solv., cap. 220 T. Soyoptim, Soyadyn, Soyassim, Flocosoya and others. S.I.O. soy flours. Soybean operations 66,000 T. annually. Served by SNCF Arras/Blangy RR.

St. Cloud — EUROSOYA S.A., 128, Bureau de la Colline-de-St-Cloud, 92213 St. Cloud. Ph. 602. 0540. Plant at St. Nazaire (Soja France). (1) Monsieur Andre Charles.

St. Nazaire 44600 — SOJA FRANCE S.A., Boulevard Paul Leferme. Ph. 22.91.07. (1) D. de Clercq; (2-5) I.L. Vermeeren; (6-8) W. Van Der Hoeven; (7) L. Raulic. Solv., cap. 1,600 T. Storage cap. 1,500,000 bu.

Strasbourg-Port-du-Rhin — HUILERIES ALSACIENNES S.A., 1, place Henry Levy, Boite Postale no. 19, 67016. Strasbourg Cedex Ph. (88) 61-48-55. Telex 87979 Minolex. (1) C. Baumann; (6) G. Haefele. Served by SNCF RR and Rhine/canal.

Tourcoing — P. DUMORTIER FRERES S.A., 105, rue de Rotterdam, 59. Ph. 74.61.00. (1) Mr. Dumortier. Served by SNCF RR.

GERMANY

Emmerich/Rhein — OELWERKE NOURY & VAN DER LANDE, Zweigniederlassung der Akzo Chemie GmbH, Industrie Strasse. Ph. 02822/74-1. Affiliate of Akzo Chemie, Amersfoort, Netherlands. (1) L. Tjerkstra; (4) L. Schwarz; (5, 6, 8) B. Gesthuysen; (7) tr. D.J. Hupkes. Pressing cap. 250 T. De Smet solv., cap. 450 T. Storage cap. 360,000 bu. Vanderlande soybean meal and soy flour. Soybean operations 65%. Served by Deutsche Bundesbahn RR and Rhine River barges (own port).*

D 2000 Hamburg 36 — UNIMILLS Vertnebsgesellschaft fur Ernahrungsfette Ole u.Futtermittel mbh, Dammtorwall 15, Unileverhaus, Box 101509. Ph. 040-34901. (1) Dr. E. Rohr; (2) A. Lackowski; (3) Dr. G. Hatje; (4) J.R.B. Zeeuw; (5) J.E. Batterbee; (6) crude; H. Koschorreck, processed; Dr. A. Bartels, J.A. Kingma; (8) R. Marussi.*

D 2000 Hamburg 36e — UNION DEUTSCHE LEBENSMITTELWERKE GmbH, Oil Milling Div. of Unilever, Unileverhaus, Dammtorwall 15, P.O. Box 101509. Ph. 040/34901. (1) Dr. E. Rohr; (2) A. Lackowski; (3) Dr. G. Hatje; (4) J.R.B. Zeeuw; (5) Dr. J.E. Batterbee; (6) H. Koschorreck; (8) R. Marussi.*

Hamburg — OELMUHLE HAMBURG AG. Ph. 75-19-41. Telex 02-163537. (1, 4) H. Tiefenbacher; (2, 5) A. Wissel; (3) Dr. K. Thiemann; (6,8) G. Wegener; (7, 9) H. Thiem. Solv., cap. 3,500 T. Refinery, soy lecithins and derivatives, protein meals and flours.*

D 2100 Hamburg 90 — THORL'S VEREINIGTE HARBURGER OELFABRIKEN, Zweigniederlassung der Union Deutsche, Lebensmittelwerke GmbH, D 2100 Hamburg 90, 1 Hafenstrasse 15. Ph. 040/771241. (4) K. Blessing; (9) K. Eckert. Solv., cap. 2,900 T. Storage cap. abt. 28,000 T oilseeds. UNIMILLS Soyaschrot. Approximate soybean operations abt. 50%. Served by German railroad, lighters and seagoing vessels.*

Hamburg-Harburg — HARBURGER OELWERKE BRINCKMAN & MERGELL, Seehafenstrasse 2. Ph. 77 11 41. Telex 02 17 681. (1) Max-John Brinckman; (1) Arnold F. Mergell; (4) K. Gildemeister; (5, 8) K.G. Buchholz; (6) H. Simonis; (7, 9 & chief chemist) Dr. R. Merkle. Screw press, cap. 250 T. Lurgi extr. plant cap., 1,100 T. Storage cap. 900,000 bu. Hobum soybean meal. On Hamburg Unterelbe, Anschlussgleis 11 RR.*

Hamm/Westf. — BROEKELMANN & CO., Oelmuehle, Raffinerie, Speicherstr. 14/18. Ph. 44851/55. Telex 0828843. (1) Mitinhaber Herr Friedr. Wilh. Broekelmann; (1) Mitinhaber Herr Friedr. Wilh. Dohmwirth; (3) Frau Beckschulze; (4) Herr Tohmas, Prokurist; (5, 8) Herr Luley, Prokurist; (6) Herr Hom, Prokurist; (9) Dr. Gulinsky. 4 exp., cap. 350 T. Hexane solv., cap. 600 T. Storage cap. 15,000 T.

D 4190 Kleve — UNION DEUTSCHE LEBENSMITTELWERKE Gmbh, Olwerke Spyck, Niederrhein 1, Postbox 128. Ph. 02821-9041. Offices: D 2000 Hamburg 36, Dammtorwall 15, Unileverhaus, Postbox 101509. Solv., cap. 790 T. Storage cap. abt. 18,000 T. oilseeds. (4) B. Zawodny; (9) H. Habig. UNIMILLS Soyaschrot. Approximate soybean operations 30%. Served by German railroads and Rhine barges.*

D-295 Leer (Ostfriesl.) — WILHELM CONNEMANN, Saegemuehlenstrasse 45. Ph. (0491) 4571. Telex 02-7734 conman d. (1, 5) Dr. -Ing. Joosten Connemann; (4) Lothar Weibezahl; (6) Klaus-Juergen Dierks; (6) Erich Ulferts; (7) Gerhard Loecken; (8) Enno Wolckenhaar. 5 exp., cap. 600 T. Solv., cap. 600 T. Storage cap 5,000 T. Connesoy 44% and 50% pellets, meal and flour, sunpellets 30%, defatted wheat germ flour 30%. Refinery 100 T, sunoil, refined and winterized, rapesed, maize and wheat germ oil. Served by DB and river Ems, own wharf in Leer port, draft of 15-ft.*

6500 Mainz 1 — SOYA G.M.B.H. MAINZ KOMMANDITGESELLSCHAFT, Dammweg 2, Postfach 3767. Ph. Mainz 06131/80051. Telex 0418761 a sm d. Paul Werhahn, Eugen Schmidt; (5) Dieter Berres; (6) Albert Wolf; (8) Klaus Hurter. Cap. 1,600 T. Storage cap. 1,000,000 bu.*

D 6800 Mannheim — VEREIN DEUTSCHER OELFABRIKEN, Zweigniederlassung der Union Deutsche Lebensmittelwerke GmbH, 6800 Industriehafen, Bonadiestr. 3-5. Ph. 0621/37041. (4) G. Willi; (9) W. Brod. Solv. cap. 3,200 T. Storage cap. abt. 30,000 T oilseeds. UNIMILLS Soja-Schrot. Approximate soybean operations abt. 50%. Served by German railroads and Rhine barges.*

404 Neuss/Rhein — O. & L. SELS KG, Dusseldorfer Str. 101. Ph. Neuss 24054. (1) Dr. Ludwig Sels; (2) O.G. Sels; (4) Walter Schmitt; (8) J.P. Haselhorst; (9) Hans Muller. 6 exp., cap. 450 T. Solv., cap. 2,100 T. Storage cap. 1,000,000 bu.*

Neuss/Rhein — C. THYWISSEN, Olfabrik. Ph. 02101/26081. Telex: 08517803. (1) Hermann Thywissen. (5) Matthais Fischer; (6) Heinrich Asshauer and Dietrich Leimert; (8) Rainer Fries. 14 exp., cap. 500 T. Solv., cap. 1,000 T. Also refining. Storage cap. 350,000 bu. Lecithin.*

6551 Oderheim — JB. SCHMIDT SOEHNE, P.O. Box. Plant also at Mainz. Ph. 06755-316. Telex 042516. Gerhard Schmidt. Solv. cap. 350 T. Storage cap. 373,000 bu.*

GREECE

Kalamaki, Korinth — HELLENIC SOYABEAN-SOYAOIL INDUSTRY "E.B.E.S.S. S.A.". Ph. 3247-467. Office: 15, Klistenius St., Athens TT. 112, Greece. (1) C.D. Counoupakis; (2, 7, 9) G. Yannoulatos, gen. mgr.; (6,8) P.C. Counoupakis. Processing cap. 300 T. Solvent cap. 300 T. Storage cap. 12,000 bu.

Kalamaki, Korinthe — SOYA MILLS S.A., subsidiary of Eleourgia Ke Vamvakourgia Thessalonikis S.A. Office: Valaoritou 9, Athens. Ph. 0741/78211. (1) Ilias Iliadis; (2,4) Ar. Ofloudis; (3) Kostas Kessissis; (5) Savas Michailidis. Solv., cap. 600 tons. Storage cap. 1,000,000 bu. Quality 44%-45% PROFAT soybean meal. Served by own port.

INDIA

Anand 388001 (Gujarat) — SOYABEAN EXTRACTION PRIVATE LTD., c/o. Milan Poshal Ghar, Station Rd., P.O. Box 44. Ph. 272, Vallabh Vidyanagar. Managing Director House: Ph. 814, Anand. Telegraphic Address: "SOYBEAN" ANAND. Factory address: Plot 124 to 128B, g.i.D.c. Estate Vithal Udyognagar VALLABH VIDYANGAR 388120., gugarat. (1) N.H. Patel; (3) K.D. Patel; (5) G.N. Patel; (6, 8) R.A. Amin; (7) G.M. Patel; (9) P.N. Patel. Mg. Dir. R.A. Amin; Agri. Div. Dir. A.L. Patel. Solv. cap. 20-50 T. Storage cap. 1,600 MT. Soy flour. Served by Western Railways.*

Bulandshar (U.P.) — VED BRAT & CO., Reg. Soya Protein Ltd., 39-C Prem House, Connaught Place, New Delhi-1, India. Ph. 352761. (1) Ved Brat. Exp. cap. 50 T. Solv. cap. 100 T. Storage cap. 175,000 bu. Soya Proteins. Served by Indian Railways.

Dewas 455 001 — VIPPY SOLVEX PRODUCTS PRIVATE, LTD. 28, Industrial Area, A.B. Road. Ph. 581, 582, 583. Telex 0732-201 VSP IN. Chm., V.C. Mutha; (8 and managing dir.) P.C. Mutha; (3) G.D. Maheshaware; (4, 7) G.L. Mahajan; (5, 6) V.S. Surana; (9) D.C. Doshi. Exp. cap. 20 MT. Solv. cap. 100 MT. Storage cap. 15,000 MT. Vippy soy flour. Served by Western Railways.*

Indore (M.P.) — MANGLIAGAON (M.P.) GENERAL FOODS PRIVATE LTD., 150, Jaora Compound, Indore-452001. Ph. 6889 and 7467. Telex c/o 0735-203. (1) Shri Santosh Shahra; (2) Shri Dinesh Shahra. Exp. cap. 100 T. Storage cap. 20,000 T. Soya flours, lecithin, etc. Served by Western Railways.*

IRAN

Isfahan — ISFAHAN INDUSTRIES & VEGETABLE OIL CO., Anoushirevan St., km. 2. Ph. 34380, 32457, 34196/98. (1) M.A. Moin Amin; (2) AH. Moin Amin; (5) government; (7) Dr. Azadrad; (8) Moin Amin; (9) EG. Sajedi. 8 exp./screw press, cap. 80 T. Solv., cap. 50 T. Storage cap. 10,000 MT. Isfahan cakes.

Tehran — BEHPAK INDUSTRIAL CO. LTD. Office: 56 Zahedi Ave., Tehran. Ph. 8171. (1) M.B. Habibi; (7, 9) H. Jorati. 8 exp., cap. 400 T; solv., cap. 300 T. Storage cap. 15,000 T; (soybeans), 60,000 T. (cottonseed). Soybean meal. Approximate soybean operations 20,000 T.

Tehran — KESHTO SANAT KHAVAR DASHT CO., 483 Hafez Ave. Ph. 312203/10. Plant at 14 km. Karadj Rd., Tehran. Ph. 976039. (1) A.A.A. Koroor; (5) Keshte Danehaye Roughani; (6, 8) Mr. Haidari; (9) T. Ghazarian. 4 exp./screw press, cap. 600 T. Solv., cap. 300 T. Storage cap. 30,000 MT. Keshto Sanat Khavar Dasht Co. soybean meal.

Tehran — PARS ANIMAL FEED CO., Karadj Rd. Kilometer 14. Ph. 665813. Cable Parsdaneh. Office: 35 Kenedy St., Box 14/1369, Tehran. Ph. 921223. (1) Dr. A. Rahimian; (2, 6) H. Afshar; (8) Rahimi; (9) Koroor. Exp. cap. 500 T. Solvent cap. 150,000 T. Storage cap. 30,000 T. Pars Soybean Meal, mixed feeds and pellets. Approximate soybean operations 7,000 T (local crop).

Tehran — PARS VEGETABLE OIL CO., Farahabad Khazaneh. Ph. 312203-9. Telex 212476. CATLIR. Offices: 483 Ave. Hafez, P.O. Box 1982, Tehran.

Tehran 15 — SHERKATE SAHAMI ROWGHAN NABATI JAHAN 15 Ave. Malekoshoara Bahar. Ph. 838036/39, 383086/89. Telex 212628 FAT IR. Plant at Jahanshahr, Karadj, Iran. Ph. 2073/76. (1) M.A. Ghazanfar; mgr. dir., Ahmad Ghazanfar; (6) M. Jafarian; (7, 9) Eng. Marvasti; (8) H. Ghazanfar. 4 exp./screw press, cap. 250 T. Solv., cap. 250 T. Storage cap. 10,000 MT. Jahan soybean meal.

ISRAEL

Haifa — SHEMEN INDUSTRIES LTD., Box 136, Ph. 04-642181. Telex: 46774 KFOOD IL (1 and mg. dir.) Benjamin Givli; (2) Zeev Shachar; (3) Judith Seyra; (4) Samuel Goldberg; (5) Nadav Lubetzky; (6, 8) Thomas Klein; (7,9) Jacob Shefi. Allis-Chalmers, De Smet and French solv., cap 1000 T. Storage cap. 18,000 T. Approximate soybean operations up to 12,000 T monthly. Meged soy oil and Shemen meal. Served by Haifa port.*

Petah-Tikva — ETZ HAZAITH LTD., P.O. Box 193, Ph. 927171, Telex: 341859. Plant at Kiryat Aryeh,

Petah-Tikva. (1) Benjamin Gebli; (2) Zeev Shahar; (3) Yehudith Zeira; (4) Dan Atias; (6) Jacob Sarid; (9) Pinchas Naor. Extr. cap. 500 T. HLS solvent extraction plus extra one of HLS solvent extraction 200 T, flash desolventizing 30T, refinery HLS 200 T. Also meal 50% proteins, lecithin, flour, hydrogenation, margarine, shortening and soaps. Storage capacity 31,000 T. *

Petah-Tikva — TETH-BETH LTD., P.O. Box 147. Ph. 913191/2/3. Telex 341962. Directors: I. Trubowitz, M. Berger, E. Berger, Y. Berger; (3) Y. Rosenblum. Screw presses, continuous extraction, cap. 700 T. Storage cap. 17,000 T. Soybean operations 10-12 months. Served by Israel RR.*

Rishon Lezion — TAVLIN LTD. OIL & SOAP FACTORY, Box 36. Ph. 948-224. (1) Meir Sugar; (4) Leon Bachar; (7) Itzhak Cohen, chem. engineer; (9) Levy Argov. 2 continuous solvent extraction plants, cap. 350 T. Storage cap. 1,500 T. 44% soybean meal. Undecorticated cottonseed meal. Soybean operations 80%.*

Tel-Aviv — IZHAR OIL INDUSTRY OF ISRAEL LTD., P.O. Box 823. Ph. 252444/5/6/7/8. Telex 33441 OCEAN IL. Plant at 52 Nahalat Izhak St. (1) chm. of board and joint gen. mgr., Yizhak I. Mitelman; (2) joint gen. mgr., E. Ezrachi; (3) Y. Gornitzky, advocate; (4) H. Rudin; (5) R. Seroussi; (6) J. Zur; (7) M. Mietlman; (8) M. Cohen; (9) M. Ben-Hayim. S.B.P. Benzene (60%) solv., cap. 600 T. Storage cap. 6,000 T. Izhar and/or Consolex soybean meal and Izhar soy oil. *

Tel-Aviv — OLIVEX LTD., 25 Rothschild Blvd., P.O. B. 1498. Plant at Petah Tiqvah. Ph. 614451. Cable: EXOLIV. Telex: 341118 BXTV IL EXT 5674. Mg. Directors, Dr. Wolf Cegla, Aba Cegla, Dr. Uriel G. Cegla. Continuous solv., cap. 600 T. Storage cap. 8,000 T.*

ITALY

Ancone — INDUSTRIE CHIMICHE ITALIA CENTRALE, Molo Sud. Ph. 55771 (5 lines). Telegraph ICIC. (1) Dr. Igino Angelini; (2 and mg. dir.) Spartaco Sparaco; (5) Luigi Sparaco; (6, 7) Luigi Gastaldi; admin. mgr., Romolo Lattanzi; (9) Lodovico Frontero. Solv., cap. 500 T. Storage cap. 40,000 T. Soybean operations 70%. *

Genova — GIACOMO COSTA FU ANDREA S.p.A. — Via Gabriele d'Annunzio 2., Ph. 010-54831. Telex: 270068. COSTA I. Plant at Vignole Borbera (Alessandria) (5) Lorenzo Costa; (6) Frederico Costa; (7) Luigi Costa; (8) Domenico Costa; (9) Agostino Acatte. Continous solv. Plant cap. 800 T, Storae cap. 45,000 T; costa soybean meal, soy oil, soy lecithin. Approx. soybean operation 90%. — Plant at Porto Marghera (Venice) S.A.V. M.A. S.p.A. Continous Solv. Plant cap 1000 T, Stor. cap. 55,000 T Soybean meal, soy oil, soy lecithin. Approx. soybean operation 90%. *

Inveruno 20010 — OLEIFICIO FRATELLI BELLOLI SAS. Ph. 978125, 978325. Telex 32549. (1) Gr. Uff. Giovanni Battista Belloli; (2) Rag. Angelo Belloli-Rag. Terenzio Belloli; (9) Vincenzo Donini; chief chemist, Dott. Gino Campanella. De Smet solv. Storage cap. 40,000 T. *

Livorno — ITALSO S.p.A., Via L. da Vinci, 35/A. Soybeans crushing cap. abt. 700 T per day.*

Livorno — LIQUIFARM-GRUPPO INDUSTRIE ALIMENTARI S.p.A. Via L. da Vinci 19. Ph. 34731. Telex 500053. Telegraph Supermix. (1) Ing. Erminio Cipolla; (5, 6, 8) Dr. Eugenio De Biase; (7, 9) P.I. Piero Papini. Solv., cap. 300 T. Storage cap. 70,000 T. Genova/Roma RR.

Modena — SOCIETA' INTERNAZIONALE OLEARIA S.p.A., Largo S. Giorgio 56. Ph. 222571/2. Telex 510138. Telegraph SIO Modena. (1) Carlo Benassati. Plants at Modena, Via P. Ferrari 177; Castelfiorentino, Via Senese Romano; Ravenna, Via delle Industrie 113. 16 exp., cap. 600 T; De Smet solv.; cap 1,000 T. Storage cap. 45,000 T. Soybean operations 75%.

Ravenna — ITALIANA OLII E RISI S.P.A., Via Romolo Gessi, 20 Ph. 31222, Plant at Porto Corsini, Ravenna, Ph. 446032/33/34; at Porto Marghera, Venice, Ph. 50752; at Aprilia, Latina, Ph. 924144. (1) Arturo Ferruzzi; (2) Manetti Leo; (3) Ceroni Gianfranco; (4) Mazzolini Guido, Rosetti Stefano; (5) Ferruzzi-Gardini Raul; (6) Pietro Cortesi; (7) Sangirgi Silvano-Aprilia; (7) Stefano Ghiradini-Ravenna; (7) Ferruzzi Antonio-Marghera; (8) Cortesi Pietro; (9) Ceroni Gianfranco; Plant P. Corsini: 4 screw pr. cap. 75 T.; 3 De Smet solv. plants, cap. 700 T. Storage cap. 120,000 T.; Plant Aprilia cap. 500 T. Storage cap. 40,000 T.; Plant Porto Marghera cap. 450 T.; Storage cap. 40,000 T. Soybean Meal Lecitoil soy lecithin. Soybean operations 90% served by Bologna-Venice and Ancona Venice RR.*

Venice — SAMVA Div. of Giacomo costa fu Andrea, Off. in Milano, Plant in Porto Marghera. Soybean crushing abt. 1,000 T per day.*

JAMAICA

Kingston — JAMAICA SOYA PRODUCTS LIMITED, Jamaica Nutrition Holding Ltd. P.O. Box 1021, 8 Ocean Blvd. Plant at P.O. Box 27, Rodon's Pen, Old Harbour. P. 983-2217/2244. Chr. G.O. Holness; Gen mgr. F.A. Anderson; Dep. Gen mgr. G.A. Neita; Quality Ctl. mgr. C.. Alexander. French Stationary Basket Extractor, cap. 300 ST. Storage cap. 500,000 bu. Bulk and bagged soybean meal.*

JAPAN

Asahikawa City 070 — ASAHI YUSHI CO. LTD., Higashi Asahikawa. Ph. 0166-36-1121. (1) H. Shigyo; (4, 6, 8) K. Yakita; (7, 9) M. Enomoto. Solv., cap. 215 T. Soybean meal, soy oil, protein and flour and mixed feeds. Served by Asahikawa Hakodate RR.*

Chiba-Shi 260 — TOYO OIL MILLS CO. INC., 230 Shinminato, subsidiary of Ajinomoto Co. Inc., Tokyo. Ph. 0472-41-1251. (1) T. Hino; (3, 4, 5, 6, 8) M. Namekata; (7) O. Uehara; (9) A. Iwata. stroage cap. 83,000 T soybeans and 17,500 T soybean meal.*

Kobe — JAPAN SOYA PRODUCTS CO., LTD. (Nihon Daizu Seiyu Co., Ltd.) Sumiyoshi-Hamacho, Higashinada-ku. Representative dir., Seiji Itai; Matsuji Ikada; (3, 4) Matsuji Ikada; (6, 7, 8) Seiji Itai. Solv. Cap. 55,000 MT Soybeans, 7,500 MT Soybean meal. 45% and 50% Soybean meal and degummed soy oil.

Osaka 542 — FUJI OIL CO. LTD., Nissei Midosuji Hachimancho Bldg., 6-1 Hachiman-cho Minami-ku. Ph. 06-213-8151. Also office in Tokyo, Nagoya, Hiroshima, Fukuoka and Sapporo. Plants in Kobe and Izumisano. (1) M. Nishimura; (2) S. Suita; (3) O. Miyaji; (4) S. Shimizu; (5) I. Sunagawa; (6,8,) K. Hisomoto; (7) T. Nakanishi; (9) S. Tada. 23 exp., cap. 460 T; solv.,cap. 400 T. Storage cap. 160,000 bu. Fuji Takara soybean meal, isolated soy protein, Fuji soy oil and mixed feeds. Approximate soybean operations 300 T/day. Served by Japan National RR.*

Osaka — KATO OIL MILL CO. LTD., 2-1-16, Ume-Machi, Konohana-ku, Osoka-Shi, Japan pref. Ph. (06)462-0101. (1) A. Kato; (3, 4) Y. Jyojya; (5, 6 8) H. Fukushima; (7) T. Kusuda; (9) H. Fukushima. Exp., cap. 188 T. Solv., cap. 300 T. Soybean meal and oil. Served by Tamano Uno RR.

Osaka — NIHON KOYU CO. LTD., No. 32 Bungo-cho, Higashiku. Ph. 943-0740. Plant at Mizushima, Kurashiki. Okayama Pref. discharging port at Mizushima. Offices: Fuji Bldg. 2-10-9. Tokyo, Nagoya, Osaka, Takamatsu, Okayama, Hiroshima Tokuyama and Fukuoka. Chm. K. Haruna; (1) T. Noguchi; (2) J. Iwakawa; F. Nonaka, H. Ogawa; (4) J. Iwakawa; (5, 6, 8) F. Nonaka; (7, 9) H. Ogawa. 2 exp., cap. 400 T. Solv., cap. 1,300 T. Storage cap. 55,000 T. Nikko soybean oil, rapeseed oil and other vegetable oils, lecithin, soybean meal, rapeseed meal and other vegetable meals, Nikko-mame defatted soybean flakes for shoyu and miso, Sakae mame soy flour for tofu, Protflour soy flour for food and milk replacer, Nikopron high protein for food, Nikofimee spun protein for food, Sterin. Approximate soybean operations 330,000 T/year. Served by Sanyo RR and Mizushima port.*

Osaka — NIKKA FATS & OILS CO. LTD., 25-22, 1-chome, Edobori, Nishi-ku. Ph. 06-441-7431. Plant at Wakamatsu, Kitakyushu, Fukuoka. (1) A. Ishidahara; (3, 4) Y. Tamura; (5, 6, 8) Y. Kawamoto; (7, 9) K. Kikuchi. Hexane solv., cap. 600 MT. High press 2, cap. 300 MT. Banzai soybean meal, soy protein, rapeseed meal. Soy oil, rapeseed oil, Nikka salad oil, Nikka tempura oil. Served by JNR Chikuho line, Kobe, Moji and Hakata ports.

Osaka — YOSHIHARA OIL MILL, LTD., 3-6-32, Naka Noshima, Kita-ku, Ph. 06-441-8851. Kobe plant at 49, Fukaohama-machi, Higashinada-ku, Kobe City. Ph. 078-451-4001. (1) T. Kawagoshi; (3) T. Ozawa; (4) T. Suzuki; (5, 6, 8) T. Mori; (7, 9) T. Miyagawa. Solv., cap. 1,500 T. Storage cap. 40,000 T. Gotoku soybean meal and soy flour. Soybean operations 40,000 T/month.

Tokyo — AJINOMOTO CO. INC., 5-8, 1-chome, Kyobashi, Chuo-ku. Ph. 272-1111. Plant at Yokohama. (1) B. Watanabe; (3) M. Koike; (4) T. Toba; (5) T. Ohoka; (6, 8) N. Yamagata; (7, 9) K. Takenouchi. 8 screw pr., cap. 140 T; hexane solv., cap. 700 T. Storage cap. 1,000,000 bu. Oils and fats: tempura oil, salad oil, oilseed meal, lecithin, soy protein. Seasonings: Aji-no-moto, Hi-me, Aji-shio, Aji-eki, Aji-mate, Amino acids, mayonnaise, margarine, soups, Ajicure prepared frozen food, instant coffees and Aji-coat.

Tokyo — HOHNEN OIL CO. LTD., Mitsui Life Insurance Bldg., 1-2-3, Ohtemachi, Chiyoda-ku. Ph. 211-6511. Plants at Shimizu and Kobe. (1) T. Yoshii; (3) E. Sakabe; (4) S. Munechika; (5) H. Nakamura; (6) M. Yasumoto; (8) S. Suga; (9) S. Urushibara at Shimizu, T. Yoshihara at Kobe. Hexane solv., cap. 1,500 T. Storage cap. 71,000 T. Hohnen salad oil, Hohnen tempura oil, soy protein, Hohnen soy milk, Hohnen soybean meal, Soyalet (mixed feed for dairy and beef cattle), Hohnen Yutakamame (soybean meal for tofu), corn starch, soy lecithin, soybean glue, Soy Pro (culture ground for microbes), synthetic resin adhesives and decorative plastic laminates. Served by Tokaido line, Shimizu port.

Tokyo — THE NISSHIN OIL MILLS, LTD. 23-1, 1-chome, Shinkawa, Chuo-ku. Ph. (555)6923. Plants at Yokohama and Kobe. Chm. Y. Sakaguchi; (1) M. Kawaguchi; (3) M. Ishida; (4) M. Ishida; (5) M. Fukawa; (6) M. Oki; (8) A. Yamaguchi; (9) K. Kito. 27 exp., cap. 1,500 T; Continuous solv., cap 2,400 T. Storage cap. 100,000 T. Daikyu soybean meal, pellets, soy flour, Soy-mee soybean edible spun protein, soy oil, Nisshin salad oil, dressing, lecithin, fatty acid, hardened oil, other vegetable oil and meals. Approximate soybean operations 400,000 T/yr. Served by Tokaido line, Yokohama and Kobe ports.

Tokyo — RINORU OIL MILLS CO. LTD., Aminosan Kaikan Bldg., No. 8, 15, 3-chome Nihombashi, Chuo-ku. Ph. 273-5651. Plant at Nagoya. (1) M. Katsu; (3, 4) T. Yoshida; (5, 6, 8) M. Izumi; Nagoya Plant (7) T. Maeda; (9) E. Takasugi. Exp. cap. 280 T; solv. cap. 1,300 T. Storage cap. 1,850,000 bu. Soy oil, Rinoru salad oil, Rinoru safflower salad oil and other vegetable oils; soybean meal and other vegetable meals. Served by Tokaido Line, Nagoya port.

Tokyo 101 — SHOWA SANGYO CO. LTD., 2-1, 2-chome, Uchikanda, Chiyoda-ku. Ph. 257-2020. (1) H. Mutoh; (2) S. Takanashi; (3) H. Mihara; (4) N. Takasu; (5, 6, 8) T. Ena; (7) S. Takahashi; (9) K. Kojima, Y. Kawamata, M. Yasuhara. Continuous solv., cap. 2,220 T. Storage cap. 282,400 T. Showa soybean meal, soy oil, salad oil; soybean glue, lecithin, fatty acids; Showa soy flour and mixed feeds; Sangyo-Mame soy flour for tofu. Served by port of Yokohama, Kashima and Kobe.*

Yokkaichi 510 — YOKKAICHI OIL & FATS CO. LTD., 3-44 Go, Suehiro-cho. Ph. (52)5131. (1) Y. Muraki; (3, 7, 9) K. Hattori; (4) T. Beppu; (5) Y. Muraki; (6) T. Kanamori; (8) S. Miwa. Solv., cap. 230 T. Storage cap 300,000 bu. Soybean meal and oil.*

JAPANESE MANUFACTURERS OF SOY PROTEIN

Osaka 542 — FUJI OIL CO. LTD. NISSEI, Midosuji Hachimancho Bldg., 6-1 Hachiman-cho, Minami-ku. Ph. 06-213-8151. FUJIPRO-M/SP, IPSO-M/SP (isolated soy protein), FUJIPRO-C, IPSO-C (concentrated soy protein), IPSOTEX FUJINIK (textured soy protein).*

Osaka — JAPAN SOY PROTEIN CO. LTD., subsidiary of Takeda Chemical Ind. and Yoshihara Oil Mill, Ltd., Sumiyoshicho Izumisano. Ph. 0724-63-5105-5107. (1) Akila Satake; (2) Kiyofumi Ishii. Manufacturer of textured soy protein.

non-U.S. processors . . .

Osaka 550 — NIKKA FATS & OILS CO. LTD., 5-16, 1-chome, Edobori, Nishiku. Ph. 06-441-7431. Concentrated. (1) M. Ibaraki; (2) Y. Kawamoto; (3,4) Y. Tamura; (5, 6, 8) T. Takigawa; (7, 9) S. Kikuchi.*

Osaka — YOSHIHARA OIL MILL, LTD., 3-6-32 Nakanoshima, Kita-ku. Ph. 06-441-8851.*

Tokyo — AJINOMOTO CO. INC., 5-8, 1-chome, Kyobashi, Chuo-ku. Essan Protein-S,L, Prorich, Ajipron-E, M. S.

Tokyo, 105 — FPPM LIMITED, joint venture of Fuji Oil Co. and Ralston Purina, SKF Bldg., 9-1, 1-chome, Shiba-Daimon, Minato-ku, Tokyo, Japan. Ph. 03-438-2021. Factory at 1-chome, Sumiyoshicho. Izumisano-city, Osaka-fu 598. (1) Saburo Kikuchi; (2) A.B. Clarke, Jr.*

Tokyo — HOHNEN OIL CO. LTD., Mitsui Life Insurance Bldg., 1-2-3, Ohtemachi, Chiyoda-ku. HOC Curd and Soy Milk.

Tokyo — JAPAN PROTEIN INDUSTRY CO. LTD., 1920 Ogawahigashicho, Kodaira City. Ph. 0423-41-0831. Proton-M and Hiproton (whole fatted spray-dried soy protein); Proton-Sa No 1 (defatted spray-dried soy protein); Proton-Na No 1 (isolated soy protein).

Tokyo — MILES-KYOWA CO. LTD., Aoyama Bldg. 2-3, Kita-Aoyama 1-chome, Minatoku, subsidiary of Miles Laboratories Inc. and Kyowa Hakko Kogyo Co. Ltd. Ph. 03-402-9144. (1) Shukuo Kinoshita; (2) Shiro Tokumine; (8) E. Morihiro. Maxten, textured vegetable protein.

Tokyo 101 — NIKKA FATS & OILS CO. LTD., 1-Chome, Kandasakumacho, Chiyoda-Ku, Ph. 03-255-9956. (1) M. Ibaraki; (2) Y. Kawamoto; (3, 4) Y. Tamura; (5, 6, 8) T. Takigawa; (6, 8) I. Takahashi; (7, 9) S. Kikuchi.*

Tokyo — TOKYO BRANCH OF NIHON KOYU CO. LTD., Fuji Bldg., 10-9, 2-chome, Hongo, Bunkyo-ku. Ph. 03-813-6201. Nikopron, Nikomeat and Nikofimee.*

Tokyo — THE NISSHIN OIL MILLS LTD., 23-1, 1-chome, Shinkawa Chuo-ku. Ph. 03-555-6885. Soymee.

Tokyo — RINORU OIL MILLS CO. LTD., Aminosan-Kaikan Bldg., 8, 15, 3-chome, Nihonbashi, Chuo-ku.

Tokyo — SHOWA SANGYO CO. LTD., 2-1, 2-chome, Uchikanda, Chiyoda-ku. Ph. 03-257-2020.*

Tokyo-to — KYOWA HAKKO KOGYO CO. LTD., 1-6-1 Otemachi Chiyoda-ku, Tokyo. Ph. 03 (201) 7211. (1) Shukuo Kinoshita; (3) Naonori Owada; (4) Taro Yoshikawa; (5) Shigeo Kuwata, mgr., purchase dept.; (7) Yoshio Chizimatsu; (8) Osamu Arao, mgr., food sales dept.; (9) Keitaro Tomioka.*

KOREA

Inchon — KOREA LIVESTOCK DEVELOPMENT CO. LTD., affiliate of Peavey Co., Minneapolis, Minn., 610-106 yong hyun-dong, namkoo. Office: 24, 2-ka, zuh-dong, choong-ku. I.P.O. 1338, Seoul. Ph. 27-5121. Private trade entity joint venture company. (1) Tong Keun Chung; (2) Eun Sup Chung; (7) Joong Han Choi, tech. advisor, Herbert W. Zarns. Peavey mixed feeds and pellets.

Seoul — DONGBANG OIL & FLOUR MILLS CO. LTD., 2, 4-ka, Yangpyong-dong, Yungdungpo-ku. Telex 27334. (1) Myoung Soo Shin. Solv., cap. 1,270 M/T daily. Storage cap. 1,100,00 bu.

Seoul — SAMPYO FOODS CO. LTD., 647-2, Chang-dong, Dobong-ku, Seoul. Ph. 992-7111-7. (1) Seung Bok Park; (2) Seung Jae Park; (3) Jung Kyu Kim; (4) Hae Kyun Lee; (5) Wan Sik Kim; (7) Hae Yul Yoo. 4 exp. cap. 3 T. Storage cap. 500 T. Soy sauce, bean mash, hot bean mash, instant chajang sauce and instant curry sauce.*

LEBANON

Beirut — SELAATA TERMINAL, Ste. Huiles et Derives S.A.L., P.O. Box 644, Ph. 221413-14-15-16 17. Telex: 20877 LE. (1) Nassif E. Jabbour; (8) Shehadeh N. Malouf; (9) Elial Elias. Processing cap. 400-450 T per day. Total stor. 30,000 T.*

MEXICO

Chavez, Coahuila — ANDERSON, CLAYTON S.A. de C.V. Telex: ACCOME 682736/APIAME 682700. Head office: Guadalajara, Jalisco, Exp./ solv., cap. 200 MT.*

Ciudad Obregon, Sonora — ACEITE S.A. Owner La Polar S.A., Mexico, D.F. Exp./solv., cap. 500 T.

Ciudad Obregon, Sonora — GALLETERA MEXICANA S.A. (GAMESA). (1) Alberto Santos; (7) Antonio Gil Anaya. De Smet solv., cap. 500 T.

Ciudad Obregon, Sonora — INDUSTRIAS CONASUPO S.A. Head Office: Mexico, D.F. Exp./solv., cap. 350 MT. Telex: 032826 ICPGME.

Ciudad Obregon, Sonora — LOS MOLINOS S.A., Apartado Postal 574, Zona Industrial No. 2, CD, Obregon. Ph. 3-46-90. Telex 055-839. (1) César Estrada O.; (6) Francisco Cuevas; (9) Ing. Alfredo Garcia S. 5 exp., cap. 350 T. 2 solv., cap. 350 T. Storage cap. 1000 bu. SOYARINA 50 soybean meal. Soy flour. Served by FF.CC. Del Pacifico.*

Ciudad Obregon, Sonora — MOLINOS UNION DEL YAQUI S.A. DE C.V., Miguel Aleman y 6 de Abril. Ph. 3-58-70/3-62-46. Telex 055-813 MUYME. Plant at Carretera Internacional, Km. 337, Cd. Obregon, Sonora. Ph. 3-95-61. (1) Ing. Roberto Oroz 1.; (2) Gustavo G. Talamante; (3) Lamberto Antillon; (5 and gen mgr.) Alejandro Feliz; (6, 9) Humberto Villarreal.; (7) Ing. Alejandro Valenzuila; administrative mgr., Manuel De J. Garces. EMI sol., cap. 300 T. Storage cap. 1,845 bu. Served by FF.CC. Del Pacifico.

Culiacan, Sinaloa — ACEITES Y PROTEINAS S.A., Apartado Postal 2063, Km. 6, 4 Camino a Novalto. Ph. 3-09-00/01. Telex: 066-5713 APSAME (1) Gregorio Gomez G.; (3) Gregorio Gomez Alonso; (4) Lic. Eloy Gomez Alonso; (7) Ing. Ibarra; (9) Angel

Sanudo Galvan. De Smet solv., cap. 200 T. Storage cap. 740 bu. Soybean meal and soy flour. Served by FF.CC. Del Pacifico.*

Empalme, Sonora — ANDERSON, CLAYTON S.A. Head office: Guadalajara, Jalisco. (7) Haskell Cooke; (9) Roberto Lerma. Exp./solv., cap. 420 MT.*

Gomez Palacio, Durango — INDUSTRIAL JABONERA LA ESPERANZA S.A., Valores Modernos S.A., Fte. a la Estacion de los FF.CC. Ph. 4-1044. Telex 032-877. (1) Jesus Barroso Gomez; (3) Alfonso Estrada Gonzalez; (5, 6, 8, 9) Aureliano Alatorre Mireles; (7) Ing. Mario Castaneda Garcia. C. 4 exp., cap 150 T. Lurgi solv., cap. 150 T. Storage cap. 740 bu. Soy flour. Served by FF.CC. Nacionales de Mexico.*

Gomez Palacio, Durango — INDUSTRIAS CONASUPO S.A. Telex: 032826 ICPGME. Head office: Mexico, D.F. .(9) Ing. Miguel Cenicero Vazquez. Exp./solv., cap. 300 MT.*

Guamuchil, Sinaloa — ACEITERA DEL NOROESTE S.A. (1) Carlos Esquer. Exp./solv., cap. 60 MT.

Guadelajara, Jalisco — ACEITERA EL SALTO S.A., Km. 1.5 Carretera San Martin de las Flores-El Castillo El Salto. Ph. 35-95-16/18. Telex 068-2675. (1) Ramon Leucona Ramos; (6) Enrique Moreno; (7) Juan M. del Hoyo; (9) Armando Francisco Pujol G. 10 exp., cap. 100T. Solv. cap. 80T. Soy flour. Served by FF.CC. Nacionales de Mexico S.A.*

Guadalajara, Jalisco — ACEITERA LA JUNTA, S.A., Calzada Gobernador Curiel No. 4781, P.O. Box 9-3. Ph. 12-65-46. (1) Eugenio Gomez Barquin; (2, 6, 7) J. Cesar Gomez Fernandez; (4) Yolanda Gomez de Del Rio; (5) Noe A. Hinojosa L.; (8, 9) Ing. Javier Anaya G. 13 exp./screw press cap. 128 T. Solv., cap 200 T. Storage cap. 20,000 MT. Mixed feeds and pellets. Approximate soybean operations 25,000-30,000 T/year. Served by FF.CC. Nacionales de Mexico.*

Guadalajara, Jalisco — ACEITERA TAPATIA S.A., Ing. Tomas Limon G. Exp./solv., cap. 80 MT.

Guadalajara, Jalisco — ACEITES, GRASAS Y DERIVADOS S.A., Carr. Tequila Km. 8. Pres. Juan Jose Gomez. Exp./solv., cap. 200 MT.

Guadalajara, Jalisco — ANDERSON, CLAYTON & CO. S.A., Av. Vallarta No. 6449. Main office.*

Guadalajara, Jalisco — FABRICA DE ACEITES "La CENTRAL" S.A., Industrias Gonzalez S.A., Escobedo Sur No. 240. Ph. 35-00-46. Telex 0681763. (9) Daniel Sada Jr. 8 exp., cap. 400 T. Solv. cap. 400T. PASTA MEX soybean meal. Served by FF.CC. Nacionales de Mexico.

Guadalajara, Jalisco — GRASAS Y VEGETALES S.A. Limon No 1,139, Col. del Fresno. Telex: 068-1708. Owner; Ing. Eduardo Collignon.Exp./solv. (Lurgi), cap. 150 MT. *

Guadalajara, Jalisco — OLEAGINOSAS DE OCCIDENTE S.A., Sabina No. 2052 Colonia del Fresno. Ph. 1203-48, 12-12-41. (1) Francisco Echavarria R.; gen. mgr., Luis N. Garcia Silva. 5 exp., cap. 70 T. Solv. cap. 50 T. Storage cap. 365 bu. Soy flour. Served by FF.CC. Del Pacifico and FF.CC. Nacionales de Mexico.

Hermosillo, Sonora — ACEITAS Y DERIVADOS DEL PACIFICO S.A., Raul Gracia y Cia S.A., Carretera Hermosillo-Nogales, Km. 2125, Apdo. 213. Ph. 422-15. Telex 058-854. Office: Ave. Ruiz Cortinez 257 Pte., Monterrey, N.L. (1) Enrique R. Garcia; (2) Lic. Enrique Garcia; (5, 9) Ing. Luis Quiros, Ing. Alfonso Nava; (8) Sr. Jose Aguilar. Exp., cap. 200 T. Solv., cap. 200 T. Served by Chihuahua-Pacifico.*

Mexicali, B.C. — INDUSTRIAS CONASUPO S.A., Km. 11½ Carretera San Luis. French Stationary Basket Extractor 400 MT. New 100 MT refinery.

Mexico, D.F. — ACEITE CASA S.A., Ave. Ceylan No. 793. Col. Industrial Vellejo. Telex: 177 1716 CASAME Owner: Ing. Enrico Cusi. Exp./solv. (French), cap. 300 MT.*

Mexico 14, D.F. - - ACEITES POLIMERIZADOS S.A., Inguaran No. 5719. Ph. 577-39-23/25. Plant at Calzada Inguaran 5737, Mexico 14, D.F. Ph. 577-39-23/25. (1) Jose Terrones Langone; (gen. dir. and 5) Ing. Jose Luis Terrones; (6, 8) Ing. Frederico Acebal; (7) Ing. Jose Maya R.; (9) Lic. Mario Meraz. Adm. dir., Lic. Victor M. Terrones. 6 exp., cap. 70 T. De Smet solv., cap. 70 T. Storage cap. 560 bu. Soybean meal and soy flour. Soy fatty acid distillates cap. 2,000 T annually. Epoxidized soybean oil cap. 1,000 T annually. Served by FF.CC. Nacionales de Mexico S.A.*

Mexico, D.F. — INDUSTRIAS CONASUPO S.A., subsidiary of Compania Nacional de Subsistencias Populares, Rio Amazona no. 62. Ph. 5358414. Plant at Cuautitlan. (1) Francisco Aguilar. French solv., ext. cap. 600 MT. Owned by Mexican Government.

Mexico 9, D.F. — LA PALMA S.A., Industrias Gonzales S.A., Monterrey, N.L., Sidar y Rovirosa No. 158. Ph. 522-03-74. (1) Jesus Salinas Herrera. 6 exp., cap. 250 T. Smet solv., cap. 180 T. Storage cap. 365-440 bu. Soybean meal. Served by FF.CC. Nacionales de Mexico S.A.

Monterrey, Nuevo Leon — RAUL GARCIA Y CIA S.A., Av. Adolfo Ruiz Cortines, No. 257 Pte. Ph. 51-57-00. Telex 0382648. (1) Enrique R. Garcia. Exp., Solv., cap 700 T Served by FF.CC. Nacionales de Mexico S.A. *

Morelia, Michoacan — NEGOCIACION INDUSTRIAL SANTA LUCIA S.A., Av. Heroes de Nocupetaro No. 1022. Ph. 2-01-75. (1) Ma. Guadalupe Cosio V da. de Diez; (2) Ing. Maximo Diez Gonzales Cosio; (3) C.P. Felipe Torres P.; (4, 9) Lic. Joreg Diez Gonzalez Cosio; (5) Guillermo Oteiza U.; (6, 8) Ramon Flores. 4 exp., cap. 40 T. De Smet solv., cap. 50 T. Storage cap. 300 bu. Santa Lucia soybean meal. Served by FF.CC. Nacionales de Mexico.

Morelia, Michoacan — TRON HERMANOS Y CIA. SUCRS. S.A., Hs. de Nocupetaro No. 825. Ph. 2-0222. (1) Gregorio Gomez; (6, 8) Juan Gomez; (7) Juan Olliviez. Gen. Mgr. Gregorio Gomez Alonso. 5 exp., 30 T. De Smet solv., cap. 70T. Storage cap.

550 bu. Soy flour. Served by FF.CC. Nacionales de Mexico S.A.

Navojoa, Sonora — ACEITES DEL MAYO S.A. De C.V., Km. 1778 Carretera Guadalajara-Nogales. Ph. 2-34-34. Telex: 055626. (1) Ing. Jorge Lliteras; (3) Sr. Arturo Daniel Almada Ramos; (4) Sr. Manuel Romo Carrillo; (6, 8, 9) Ing. Enrique Ibarra Higuera; (7) Ing. Carlos Enrique Salazar Castillo. Sov. ext. cap. 350 T.*

Tehuacan, Puebla — ROMERO HEMANOS S.A. MGR. Eduardo Gamboa. French solv. ext cap 300 MT.

Tlanepantla, Estado de Mexico — ACEITES INDUSTRIALES EL ZAPOTE S.A., Ave. Presidente Juarez No. 201. Ph. 397-53-11. (1) Eugenio Gomez Barquin; (2) Eugenio Gomez Fernandez; (3) Antonio Fernandez; (4) Julio Cesar Gomez F.; (5) Julio C. Gomez; (6, 8) Rodolfo Ampudia; (7, 9) Ramon de la Torre. 12 exp., cap. 150 T. Solv., cap. 120 T. Storage cap. 740 bu. ASTRO soybean meal, mixed feeds, pellets, soy flour. Served by FF.CC. Nacionales de Mexico S.A.

Tlanepantla, Edo. de Mexico — HIDROGENADORA NACIONAL S.A., Rio Lerma y Fulton. (1) Nicolas Xacur. Exp./solv., cap. 250 MT.

Tlanepantla, Edo. de Mexico — INDUSTRIAL ACEITERA S.A., Carretera Mexico-Cuautitlan 20½. Telex: 017-178656 IASAME. (1) Jose Luis Gomez Sainz; Prod. mgr. Hector Garcia Padilla. 4 exp., cap. 100 T. De Smet solv. cap. 200 T. Esp. solv. 350 T.*

MOROCCO

Casablanca — S.E.P.O., 2 Rue Caporal Corbi, B.P. 3094, Ph. 241-096/97. Telex: 21076. (1) Karim Lamrani Mohamed; (2) Bodis Fernand; (6, 8, 9) Heddoun Ali. Oilseed processor, oil refiner 30,000 T per year, soy meal, 18,000 T refined oil cap., soap 5,000 T flour.*

Kenitra — S.I.G.O.H.A.R.B., B.P. 168, Quartier Industrial, Ph. 016-2738/5955/5803. Telex: 31720. (1) Olahna Idrissi My Said; Dir. Gen. Mohaned Doghmani. 120,000 T soybean processing cap., degummed soy oil and soymeal.*

NETHERLANDS

Amsterdam — CARGILL B.V., Coenhavenweg 2, Box 8074. Ph. 803-803. Telex 14081. Affiliate of Cargill Inc., Minneapolis, MN. (1) Ad Blankestijn; (5, 6, 8) Reitz van Giffen; (7) Guillaume Bastiaens. Solv., cap. 3,000 T. Storage cap. 60,000 T. Cargill soybean meal. Served by Dutch RR.

NL-3180—Maassluis — ADM-DE PLOEG B.V., Hellingkade 1, P.O. Box 3. Ph (0 1899) 12188. Telex 22324 (ADM NL). Cable DEPLOEG. (1) Richard E. Burrel; (6) Jan Blom; (8) Hans Spierenburg; (9) Mark Calmes. Hexane solvent. De Ploeg super soybean meal. Refined and crude soy oil.*

Rotterdam 8 — SPEELMAN'S OLIEFABRIEKEN B.V., Delftweg 100. Ph. 373011. Telex 21264. (1) M. Wyler; (2) P. van der Wiel; (6) G. Kieviet; (9) F. Speelman. Solv., cap. 300 T/day.*

Utrecht — CENTRAL SOYA UTRECHT B.V., affiliate of Central Soya Inc., Everard. Meijsterlaan 3. Ph. 030-938141. Telex 844-47479. (5, 6, 8, 9) Arend Teygeler.*

3336 Le Zwijndrecht — UNIMILLS B.V., Lindtsedijk 8, 3336 LE. Ph. 078-125144. Telex 29031. (1) Dr. E. Rohr; (4) H. Kort; (5) Dr. J.E. Batterbee; (6) H. Koschorreck; (8) J.P. Rus; (9) M.H. van Mens. Solv. cap. 3,600 T/day (Europoort). Storage cap. 19,500 T. UNIMILLS Soyameal. Served by lighters, barges and lorries.*

NORWAY

Egersund — RYTTERVIK FABRIKKER. Affiliate of Jens Hetland. Ph. 91581, 91459. Telex 33094. (1, 5, 6, 8, 9) Jens Hetland; (2) Jonas Hetland; (3, 4) Arthur Renberg; (7) Gunnar Gundersen. Solv., cap. 400 T. Storage cap. 900,000 bu. Soybean meal and raw and refined soy oil.*

Oslo — A/S DE-NO-FA og LILLEBORG FABRIKER, Sandakerveien 56. Ph. 22.00.50. Telex 11 181. Plant at Fredrikstad. Mg. dir. Eqil Cann; dir. of oils and fats div., J. Tveito. Lurgi solvent. Soybean operations about 250,000 T annually.*

PERU

Lima 1 — COMPANIA OLEAGINOSA DEL PERU S.A., Casilla 2965. Ph. 52-5570. Plant at Av. Argentina N° 5027, Callao, Peru. Pres. board of directors, Eng. Octavio Tudela, mgr. dir., Eng. Carlos Castro; tech, mgr., Eng. Carlos Ludowieg; prod. mgr., Eng. Efrain Minaya; purch. & logistic mgr., Eng. Mario Gnecco Lombardi; 4 exp./screw press, cap. 220 T. De Smet solv., cap. 200 T. Storage cap. 20,000 T. Approximate soybean operations 15,000 T/year. Raw material for mixed feeds. Salad oils, shortening and margarine.*

Lima — SINDI S.A., Av. Central 643-10° piso, San Isidro. Ph. 40-35-47. Telex: 21187 PE SINDI. Plant at Amazonas s/n, Piura. (1) Cristobal Rosas Zorrilla; (4) Yonel Nunez M.; (5) Alonso Llosa; (7) Jorge Vera; (9) Enrique Garcia Verano. 2 exp./screw press, cap. 40 T. Solv., cap. 25 T. Storage cap. 5,700 T.*

Piura — CALIXTO ROMERO S.A., Arequipa N° 802, P.O. Box 100. Ph. 325352. Plant at San Jacinto. Ph. 322991. (1) J.A. Onrrubia R.; (2) Calixto Romer S.; (3, 5) Manuel Romero S.; (4) Guillermo Balazrezo D.; (6) Manuel Arribas L.; (7) Angel Irazola A.; (9) Victor Quijandria R. 4 exp./screw press, cap. 80 MT. Miag continuous solv., cap. 65 MT. Storage cap. 15,000 MT. Soybean meal.

PHILIPPINES

Bagong Ilog, Pasig, Metromanila — UNIVERSAL ROBINA CORPORATION, Office: E. Rodriguez Ave. Ph. 693-2180. Telex CFCURC PN3828. (1) John Gokongwei Jr.; (2) Henry L. Go; (3) Pedro Juanitas; (4) Benito Lo; (5) Henry L. Go; (7) Isaac Guanco; (9) Jose Caballes. Solv. hexane cap. 120-150 T. Storage cap. 3000 T. Starfeeds 555 mixed feeds and pellets. Operate 80%, approx. 2000 T/month.*

PORTUGAL

Lisbon — IBEROL — (Soc. Iberica de Oleaginosas, SARL) Av. Frei Miguel Contreiras, 54-A-3° 1700 Lisboa, P.O. Box 5092, Ph. 888176. Telex: 12422

IBEROL P. Plant at Alhandra. Ph. 2501921, 2501403, 2501440. (9) Mario B. Pimentel De Smet solvent. Iberol 44% and 50% soybean meal. Served by CP Lisbon-Porto RR.*

4 Esp-Lisbon 1 — TAGOL, COMPANHIA DE OEAGINOSAS DO TEJO SARL, Av. Republica 44. Ph. 767521/22/32. Telex 14187 TAGOL P. Plant at Palenca de Baixo-ALMADA. Ph. 2762584/2768704. (1) Antonio Queiroz e Mello; (2, 6, 8) Manuel Mourao; (4) Ramiro Raimundo; (7) Raul Duarte; (9) Luis Mendes Godinho. Solv., cap. 600 T. Storage cap. 1,700,000 bu. TAGOL soybean meal, SOL mixed feeds and pellets. TAGOL soy flour.*

SPAIN

El Burgo (La Coruna) — KELSA S.A. Ph. 661-150/250/254/258. Telex 82142. (1) Adolfo Crespo Setien and Jose Manuel Elosua Rojo; (5, 6) Dir. Gen. Jose Manuel Elosua Rojo; (5, 6, 8, 9) Ramon Pitarque Gorospe; (7) Jaime Carballeira Bao. Daily cap. 900 T. Storage cap. 1,500,000 bu. Served by Sobre Propia Fabrica.*

Madrid 4 — ACEITES VEGETALES S.A. (ACEVESA), Caracas, 23. Ph. 419 55 12, 419 55 16, 419 55 50. Telex 27269. Plant at Cartagena (Murcia). Administradores: D. Jose Rafael Guzman Hom y D. Lorenzo Ochoa Zubiate; dir. gen., D. Santiago Mora Gonzalez; (6, 8) D. Tomas Lopez Palafox; (9) D. Antonio Contreras Gongora. Hexane solv., cap. 200 MT. Storage cap. 400,000 bu. Acevesa soybean meal.

Madrid 1 — SOCIEDAD IBERICA DE MOLTURACION S.A. (SIMSA), affiliate of A.E. Staley Mfg. Co., Decatur, IL, Avda. Calvo Sotelo 16. Ph. 255.45.24. Telex 27216 Simsa e. Plant at Pontejos, Santander. Ph. 272962. (1) Alfredo Gonzalez Diez; (2) Agustin Escagedo Garcia; (3) Antonio Romero Aparicio; mg. dir., Agustin Escagedo and Alfredo Gonzalez Diez; (7, 9) Jose M. Garcia Loscertales. De Smet solv. cap. 2,000 MT. Storage cap. 1,500,000 bu. Prote-soya and Super-soya soybean meals.*

Osuna (Sevilla) — ARLESA-SAVYCSA, Extramuros, s/n. Ph. 81.12.27. Telex: 27784. Daily crushing cap. 200. MT.*

Portugalete (Vizcaya) — ACEITES Y PROTEINAS S.A., ACEPROSA, Repelega. Ph. 94-425-45-00. Telex 33753. (1) Rafael Guzman; (2) Jose Rafael Guzman, Lorenzo Ochoa; (4) Eusebio Arnedillo: (6, 8) Juan Leguina; (9) Fernando De Diego. Presses, cap. 300 T. Hexane solv., cap, 1,800 T. Refinery cap. 250 T. Storage cap. 200,000 bu. Aceprosa soybean meal, Emulsoy 200 mesh soy flour, Aceprosa lecithin, refined oil. Served by Renfe.*

Reus (Tarragona) — PROTEINAS Y GRASAS S.A. Ph. 211208 Tarragona. Telex 56802. (1) Alejandro de Mollinedo; (2) Jose Urgelles and Joaquin Guardiola. De Smet hexane solv., cap. 700 T. Storage cap. 1,200,000 bu.

Sevilla — ARLESA-EXISA, Carretera del Coperno, s/n—Punta del Verde. Ph. 61.02.00. Telex: 27784. Solv., cap. 400 T. Storage cap. 590,000 bu. Soybean meal and soy oil.*

Sevilla — ARLESA-EXTRASUR, Carretera del Copero, s/n—Punta del Verde. Ph. 69.04.58-69.04.71. Telex: 27784. Krupp solv., cap. 350 T. Storage cap. 300,000 bu. Soy flour.*

Tarragona-Barcelona — COMPANIA INDUSTRIAL Y DE ABASTECIMIENTOS, S.A., Avda. de los Madronos No. 31, Madrid 33. Telex: 44373 CIND E, 22080 DINSO E. Plants at Muelle Transversal-Tarraona, Muelle Alvarez do la Campa-Barcelona. Affilate of Cargill Inc. (1) Alejandro de Mollinedo; (2) Joaquin Guardiola, Ernst Waldburger; (5, 6, 8) Javier Losantos; (7) Jose Lajara. Crushing cap. 2,4000 T, storage cap. 2,130,000 bu. Crude and fully refined edible soybean meal and oil.*

Valencia 11 — ARLESA, Aceiterias Reunidas de Levante S.A., Castell de Pop, 33-Nazaret. Ph. 23.12.78. Head offices: Avda. Generalisimo, 61-8a p. Madrid 16. Ph. 279.63.00. (1) Jose Antonio Noguera de Roig; (2) Hector Colla; (5, 6) Angel Vallin; (7) Alberto Mendez. De Smet solv., cap. 765 T. Storage cap. 924,000 bu. Soybean meal, soy oil and lecithin.

SWITZERLAND

4132 Muttenz — FLORIN LTD. OIL & FATWORKS, Hofackerstrasse 54, Ph. 061-61-01-01. Telex: 62436. Plants at Muttenz and Basel. (1) L. Florin; (2, 5, 9) R. Florin; (6) A. Miesch. Exp. cap. 80 T. Stor. cap. 2,000 T. Florin soybean meal. Served by the SBB RR.*

8031 Zurich — SAIS, Forrlibuckstrasse 10. Plant at 9326 Horn. Ph. 01/44.44.71. Affiliate of Unilever N.V. Rotterdam. (1) Dr. W. Hefti; (5) H.U. Michel; (6) F. Dinkel; (7, 9) E.A. Wyss; (8) Th. Miller, Exp. and solv., cap 300 T. Storage cap. 800,000 bu. Served by Swiss Federal RR.*

TAIWAN

Chang Hwa (Yanlin) 510 — CHUAN YUAN OIL MILL CO. LTD., 117 Hweilai St., Yuanlin, Chang Hwa. Ph. (048) 323464, (5, chm.) S.Y. Chen; (1) Y.Y. Hong Chen; (6, 8) S.F. Liang. Solv., cap. 450 T. Storage cap. 7,000 T. Yuan Chuan soybean meal, mayonnaise, refined soy oil and Chuan Yuan salad oil. Approximate soybean operations 96%.*

Chang Hwa (Yuanlin) 510 — TAY SHAN ENTERPRISE CO. LTD., Fuchiung Rd., Yuanlin. Ph. (048) 322122. Plant: Tienchung. Taipei office: 14th fl. 178 Sec. 2, Nanking E. Rd., Taipei. Ph (02) 5214152. (1, 5) J.T. Chan; (6, 8) Y.C. Chan. Exp., cap. 60 T; solv., cap. 350 T. Storage cap. 15,000 T. Tay Shan soybean meal, mixed feeds, pellets and soy oils, salad oil, safflower oil, swines, canned foods.*

Kaohsiung (Luchu) 821 — ALL SINCERE INDUSTRIAL CO. LTD. (ASIC), 38 Chung Shan Rd. Ph. (Luchu) (064)862201. Taipei office: 7th floor, 477 Tunhua S. P.O. Box 1851, Taipei. Ph. (02)7524567. (1, 5) C.H. Tsai; (6, 8) K.H. Tsai. Expeller plant, cap. 25 T/day. Solv., cap. 300 T/day. Storage cap. 40,000 T. Yuan Pao feeds, soybean meal, salad oil, corn oil, corn grits, swines, canned foods.*

Kaohsiung 800 — HSIAOKANG SUGAR MILLS, TSC, Hsiaokang Hsiang, Kaohsiung. Ph. (07)8214160. Office: 25 Paoching Rd., Taipei. Ph. (02)3110521. Chm., Y.T. Chang; (1) H.S. Tan; (6, 8) H.M. Wu; (7)

O.W. Chen; (9) J.N. Wu. Solv., cap. 340 T. Storage cap. 22,000 T. Cah-Ho soybean meal and Taitang salad oil, soy flour, mixed feed, pellet feed.*

Kaohsiung (Luchu) 821 — HUIE SHENG OIL MILL CO. LTD., 618 Fwanchiu Rd. Ph. (Luchu) (064)863-311. Offices: 102 Wenshan, Wenshan Li, Miaoli. Ph. (Miaoli) (037)320826. (1, 5) W.K. Wang; (6, 8) S.Y. Wang; (9) S.C. Wang. Solv. cap. 300 T. Storage cap. 18,000 T. Sheng-li soybean meal and oil, salad oil, comm. lecithin and mixed feeds, swines. Served by the TRB RR.*

Kaohsiung 800 — TAI HWA OIL INDUSTRIAL CO. LTD., Plant 52-1 Minchu 1st Rd., San-Ming District. Ph. (07)2313166 Taipei office: 37 Lane 67, Linsheng N. Rd., Taipei. Ph. (02)5110121. Chm., Y.H. Chen; (1, 9) Y.P. Chen; (5) Y.T. Chen. Solv., cap. 200 T. Storage cap. 20,000 T. Ching Lu soybean meal and Gold brand soy oil and salad oil, safflower oil.*

Ping Tung 900 — TAI SHING VEG. OIL IND. CO., 9, Min Sheng E. Rd. Ph. (087)322547, 323947. Chm., C.L. Wang; (1, 5) J.T. Wang; (6, 8, 9) J.C. Wang. 2 solv. plants, cap. 120 T. Storage cap. 1,800 T. Chin-She soybean meal, cake, soy oils.*

Taichung (Shalu) — CHIA FHA INDUSTRY CO. LTD., 29, Tattung St., Shalu. Ph. (046)223221-223224. Kaohsiung plant at 1 Chunlin Rd., Erchiao Village, Hsiaokang, Kaohisiung. Ph. (07) 8219571-4. Ph. Taipei office: (02)3932241. Chm., P.H. Hung; (1) C.C. Hung; (5) H.Y. Wang; (9) A.Y. Hung. 32 exp., cap. 65 T. Solv., cap. 450 T. Storage cap. 30,000 T. Fu Shou soybean meal, cake and mixed feeds. Soy oils, salad oil, and safflower oil.*

Tainan Hsien (Shanhua) 741 — EAGLE INDUSTRY CORP., 427 Chen Kong Rd., Shanhua, Ph. (064) 838201. Office 12th floor, 310, Sec. 4, Chung Hsiao E. Rd., Taipei, Ph. (02)7811161-70. (1, 5) C.W. Yuan; Chm. C.K. Ing; (4) L. Kwei; (6, 8) T.H. Chang; (9) I.C. Soo. Solv. cap. 250-300 T. Storage cap. 700,000 bu. Eagle brand soy salad oil, soybean meal. Served by TRB RR.*

Tainan (Yungkang) 711 — GREAT WALL ENTERPRISES CO. LTD. Ph. (062)231111-231118. Niao-shong Vill., Yungkang, Tainan. Taipei office: 8th floor, 310 Sec. 4, Chunghsiao E. Rd., Taipei, Ph. (02)7716677, 7716679. Chm., C.S. Chao; (1, 5) H.J. Han; (6, 8) M.N. Kao; (9) K.L. Tseng, Solv, ext., cap. 200 T. Storage cap. 15,000 T. Fong Nang soybean meal, Fu-Nong mixed and pellet feed. Refined soy oil, salad oil, lecithin, wheat flours, chinese noodles.*

Tainan (Yungkang) 711 — PRESIDENT ENTERPRISES CORP., 2-20 Yan Harng, Yangkang, Tainan. Ph. (062)232171-232190. Taipei office: 5th floor, 66-1 sec. 1, Chungking S. Rd. Ph. (02)3317571-7. (1) C.Y. Kao; (2) M.T. Chiu; (5) J.S. Chen; (6, 8) S.J. Wu. Solv., cap. 250 MT. Storage cap. 45,000 T. Tungyi salad oil, soy oil and meal. Pellets and mixed feeds. Commercial lecithin, shortening, margarines, sesame oil, soy sauce, soy milk, canned foods, swines, dairy products, wheat flour chinese noodles, breads.*

Taipei — CHIA HSIN FLOUR, FEED & VEG. OIL CORP., 1-teh Li, Peitou. Ph. (02)8912253. Office: 6th floor, 219 sec. 4, Chunghsiao E. Rd. Ph. (02)7525320. (1) Y.C. Wang; (5) S.S. Chang; (7) C.S. Chang. Solv. cap. 200 MT. Storage cap. 50,000 MT. Chia Hsin soybean meal, mixed feeds and pellets. Chia Hsin salad oil (hydrogenated), soy oil. Served by the TRB RR.

Taipei 101 — CHUNG HSING SOLVENT OIL FACTORY CO LTD., 91 Nan Kang Rd., Sec. 2, Nanking, Taipei. Ph. (02)7655125. (1) C.S. Lee; (9) W.H. Lee. 2 solv., cap. 100 T. Storage cap. 10,000 T. Chung Hsin soybean meal, salad oil and soy oil.*

THAILAND

Bangkok 13 — THANAKORN VEGETABLE OIL PRODUCTS CO. LTD., P.O. Box 13-5 Phra Pradaeng. Ph. 462-5905. Plant at 99 Soi Thanakorn, Phra Samut Jedi Rd., Samut Prakarn, Thailand. (1) Vibul Sarakitpricha. Solv., cap. 400 T. Storage cap. 60,000 T. Pellets. Approximate soybean operation 120,000 T/year.*

TURKEY

Ordu — ORDU SOYA SANAYIIMUESSESESI, affiliate of Sumerbank. Ph. 1420, 1363. (1) A. Sami Tolgay; (2) Turgut Ozdag; (3) Kutlay Alaybeyoglu; (4) Ayhan Baruonu; (6, 8) Kemal Erdem; (7) Atilla Atilgan; (9) A. Sami Tolgay. Bollman ext., cap. 36 T. Storage cap. 7,000 T. Sumerbank soy oil, soy flour and raw lecithin (15 T/year).*

VENEZUELA

Caracas — LAS LLAVES S.A., Avenida Principal Los Cortijos de Lourdes, affiliate of Mavesa S.A. Ph. 34.31.31. Telex LLAVE 42.480. Plant at Avenida La Paz, Puerto Cabello. (1) William F. Coles; (2) Alberto T. Phelps; (3) Andres Boulton; (4, 5) Juan L. Martinez Matilla; (6, 7, 8, 9) Gaston Brunicardi. Solv., cap. 150 T. Storage cap. 30,000 bu. Las Llaves soybean meal. Approximate soybean operations 10,000 T.

Estado Yaracuy — PROMASA S.A., Encrucijada Chivacoa. Office: Productos de Maiz, S.A. Ph. 76, 77. (1) Gustavo Gimenez; (2, gen. dir.) Alberto Olivares; (7) Antonio Rada; (9, chief of prod.) Ing. Gustavo Reyes. Exp., cap. 50 T; solv., cap. 100 T. Storage cap. 150,000 bu. Procria soybean meal, mixed feeds and pellets; soy flour. Approximate soybean operations 40%.

Valencia — EXTRACTORA NACIONAL DE OLEAGINOSAS S.A. (ENDOSA), Protinal C.A., P.O. Box 83. Ph. 52081. Plant at El Morro, Valencia. (1) Antonio Alamo; (2) Rolando Carrillo; (5) L.M. Yanes; (6, 8) Oscar Ibarra, J.L. Lopez; (7) Bruno Bonardo; (9) Omar Hernandez. Solv., cap. 180 T/day. Storage cap. 420,000 bu. Protinal soybean meal and mixed feeds. Soyarina soy flour. Approximate soybean operation 45,000 T/year.

Valencia — C.A. GRASAS DE VALENCIA, Av. Henry Ford, Zona Industrial Sur, Ph. 332022. Telex: 41352. (1) Dr. Eduardo Lopez de Ceballos; (2) Dr. Pedro Jose Lara Fernandez; (5,6,8) Lic. Juan Marinez Campillo; (7,9) Sr. Julio Martinez. 250 T Solv. cap. *

soy oil refiners

ALABAMA

Guntersville 35976 — CONTINENTAL GRAIN CO. Main office: 277 Park Ave., New York, NY 10017. Ph. 205-582-5614. Degumming.

ARKANSAS

Helena 72342 — RICELAND FOODS. Ph. 501-673-5500. Home office: 2120 S. Park Ave., Stuttgart. Refining, degumming and deodorizing.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500. Refining, degumming and deodorizing.

CALIFORNIA

Buena Park 90622 — HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398, Memphis. Ph. 714-523-0370. Refine and deodorize cottonseed, soybean, peanut and other vegetable oils.

Fresno 93745 — ANDERSON CLAYTON FOODS, P.O. Box 10051. Ph. 209-233-5786.

Fullerton 92634 — HUNT-WESSON FOODS INC., 1645 W. Valencia Dr. Refining and deodorizing.

Long Beach 90801 — PROCTER & GAMBLE MFG. CO., P.O. Box 440.

Los Angeles 90022 — LEVER BROS. CO., 6300 E. Sheila St. Refining and deodorizing.

Norwalk 90650 — LIBERTY VEGETABLE OIL CO., P.O. Box L. Ph. Los Angeles 213-773-2092; Norwalk 213-921-3567. Telex 691-608. Refining, bleaching and deodorizing.

Richmond 94804 — PVO INTERNATIONAL INC., 1145 Harbour Way S.

San Francisco 94110 — BEST FOODS DIV. OF CPC INTERNATIONAL INC. Refining and deodorizing.

San Francisco 94111 — PVO INTERNATIONAL INC., World Trade Center, No. 130. Ph. 415-3620990. Plant at 1145 Harbor Way S., Richmond. Manufacturing refiner.

Santa Fe Springs 90670 — BEST FOODS DIV. OF CPC INTERNATIONAL INC. Refining and deodorizing.

GEORGIA

Gainesville 30501 — CARGILL INC., P.O. Box 1298. Ph. 404-535-3100. Refined edible and hydrogenated oils.

Macon 31202 — PROCTER & GAMBLE MFG. CO., P.O. Box 9.

Savannah 31402—HUNT-WESSON FOODS INC., P.O. Box 247. Refining and deodorizing.

ILLINOIS

Champaign 61823—HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398, Memphis, TN. Ph. 217-356-7213. Refine and deodorize cottonseed, soybean, peanut and other vegetable oils.

Chicago 60623 — BEST FOODS DIV. OF CPC INTERNATIONAL INC. Refining and deodorizing.

Chicago 60617 — CARGILL INC., 122 St. and Torrence Ave. Ph. 312-375-6323. Refined edible and industrial oils.

Chicago 60623 — HUNT-WESSON FOODS INC., 4421 W. 31st St. Refining and deodorizing.

Chicago 60622 — PROCTER & GAMBLE MFG. CO., 1232 W. North Ave.

Chicago 60604 — SWIFT & CO. General office 115 W. Jackson Blvd. Ph. 312-431-2000. Refinery: Swift Canadian Co. Ltd., Toronto, Ont.

Decatur 62526 — ARCHER DANIELS MIDLAND CO. Ph. 800-637-5866. Refining, hardening, degumming, deodorizing and winterizing.

Decatur 62525 — A. E. STALEY MFG. CO., P.O. Box 151. Refining, bleaching, hydrogenation and deodorizing.

Jacksonville 62650 — ANDERSON CLAYTON FOODS, P.O. Box 368. Ph. 217-245-4134.

Joliet 60434 — DURKEE FOODS DIV., SCM CORP., P.O. Box 796. Ph. 815-423-5511. Refining and deodorizing.

soy oil refiners . . .

Kankakee 60901 — BUNGE EDIBLE OIL CO., Refinery, P.O. Box 765. General office: Kankakee (Bradley) IL. Ph. 815-939-3631. Refining, hydrogenation and deodorizing.

Taylorville 62568 — CONTINENTAL GRAIN CO., Main office: 277 Park Ave., New York, NY 10017. Ph. 217-824-3385. Degumming.

INDIANA

Decatur 46733 — CENTRAL SOYA, Sales office: Fort Wayne. Ph. 219-425-5373. Telex 232-410. Refined edible soybean, corn and palm oils and industrial soy oils.

Hammond 46320 — LEVER BROS. CO., 1200 Calumet Ave. Refining and deodorizing.

IOWA

Des Moines 50306 — CARGILL INC., P.O. Box 1636. Ph. 515-263-3115. Refined edible and industrial vegetable oils.

KENTUCKY

Louisville 40217 — DURKEE FOODS DIV., SCM CORP., 1303 S. Shelby St. Ph. 502-635-7441. Refining and deodorizing.

LOUISIANA

Gretna 70160 — HUNT-WESSON FOODS INC. Also office at P.O. Box 61770, New Orleans, LA. Refining and deodorizing.

Opelousas 70570 — LOU ANA FOODS INC., P.O. Box 591, Opelousas. Plant at 731 N. Railroad Ave. Ph. 318-948-6561. Telex 58-6645 LAF OPLS. Refining, bleaching, deodorizing and winterizing. Bulk, institutional and retail sizes.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO., P.O. Box 29. Ph. 507-625-7911. Refining, deodorizing and hydrogenating

Minneapolis 55414 — SPENCER KELLOGG DIV. OF TEXTRON INC. Ph. 716-852-5850. Refining.

MISSOURI

Mexico 65265 — M.F.A. GRAIN MARKETING DIV., Missouri Farmers Assn. Inc. Ph. 314-581-4195. Telex 1-910-760-1527. Degumming.

St. Joseph 64502 — FARMLAND INDUSTRIES, INC., St. Joseph Div., P.O. Box 427. Ph. 816-233-6161. Degumming.

St. Louis 63160 — PVO INTERNATIONAL INC. Refining and deodorizing.

NEBRASKA

Lincoln 68529 — ARCHER DANIELS MIDLAND CO., 78th & Thayer. Ph. 402-464-9131. Refining, hardening, degumming and deodorizing.

NEW JERSEY

Bayonne 07002 — BEST FOODS DIV. OF CPC INTERNATIONAL INC. Refining and deodorizing.

Bayonne 07002 — HUNT-WESSON FOODS INC., 160 E. 22nd St. Refining and deodorizing.

Edgewater, 07020 — SPENCER KELLOGG DIV. OF TEXTRON INC. Ph. 716-852-5850. Refining.

Englewood Cliffs 07632 — BEST FOODS DIV. OF CPC INTERNATIONAL INC., International Plaza. Ph. 201-894-4000. Plants at Bayonne, NJ; Chicago, IL; San Francisco and Sante Fe Springs, CA. Refining and deodorizing.

NEW YORK

Buffalo 14240 — SPENCER KELLOGG DIV. OF TEXTRON INC. Ph. 716-852-5850. Plants at Minneapolis, MN and Edgewater, NJ. Refining.

New York 10022 — LEVER BROS. CO., 390 Park Ave. Refining plants at 1200 Calumet Ave., Hammond, IN 46320; and 6300 E. Sheila St., Los Angeles, CA 90022. Refining and deodorizing.

Port Ivory, Staten Island 10314 — PROCTER & GAMBLE MFG. CO., P.O. Box A.

NORTH CAROLINA

Fayetteville 28302 — CARGILL INC., P.O. Box 2309. Ph. 919-483-4631. Refined edible and industrial vegetable oils.

OHIO

Bellevue 44811 — CENTRAL SOYA. Sales office: Fort Wayne. Ph. 219-425-5373. Telex 232-410. Refined industrial soy oils.

Cleveland 44115 — DURKEE FOODS DIV., SCM CORP., 900 Union Commerce Bldg. Ph. 216-771-5121. Refining and deodorizing operations conducted through Durkee Famous Foods Industrial Foods Group with plants at Joliet, IL, and Louisville, KY.

Columbus 43216 — CAPITAL CITY PRODUCTS CO., div. of Stokely-Van Camp Inc., 525 W. 1st Ave., P.O. Box 569. Ph. 614-299-3131. Telex 245-494. Refining, bleaching, hydrogenating, deodorizing and winterizing.

Ivorydale, Cincinnati 45217 — PROCTER & GAMBLE CO., 5201 Spring Grove Ave.

OKLAHOMA

Oklahoma City 73105 — WILSON FOODS CORPORATION. Headquarters office: Lincoln Plaza, 4545 N. Lincoln. Ph. 405-525-4545. Telex 747 249.

PENNSYLVANIA

Philadelphia 19134 — C. F. SIMONIN'S SONS INC., Tioga & Belgrade St. Ph. 215-426-2300. Refining, and deodorizing.

SOUTH CAROLINA

Hartsville 29550 — HARTSVILLE OIL MILL, 5th St. Ph. 803-332-1571. Produce refined salad oil. Refining, deodorizing, hard oils, hydrogenated products and industrial oils.

TENNESSEE

Chattanooga 37406 — CENTRAL SOYA. Sales office: Fort Wayne. Ph. 219-425-5373. Telex 232-410. Refined, edible vegetable oils and industrial soy oil.

Chattanooga 37410 — BUNGE EDIBLE OIL CO., refinery, P.O. Box 7068. General office Kankakee (Bradley) IL. Ph. 815-939-3631. Refining, hydrogenation and deodorizing.

Memphis 38101 — HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398. Ph. 901-766-2100. Refine and deodorize cottonseed, soy, peanut and other vegetable oils.

Memphis 38102 — HUNT-WESSON FOODS INC., P.O. Box 1759. Refining and deodorizing.

TEXAS

Abilene 79604 — ANDERSON, CLAYTON & CO., Oilseed Processing Div., P.O. Box 521. Ph. 915-672-3271.

Dallas 75266 — ANDERSON CLAYTON FOODS, P.O. Box 226165. Ph. 214-387-1224. Telex: 732242.

Dallas 75265 — PROCTER & GAMBLE MFG. CO., P.O. Box 75265.

Denison 75020 — BROOKSIDE DIV., Safeway Stores Inc., Drawer C, 1405 W. Washington. Home office: Walnut Creek, CA. Ph. 415-944-4527. Refine and deodorize soy and cottonseed oils.

Fort Worth 76101 — BUNGE EDIBLE OIL CO., refinery, P.O. Box 265. General office: Kankakee (Bradley) IL. Ph. 815-939-3631. Refining, hydrogenation and deodorizing.

Sherman 75090 — ANDERSON CLAYTON FOODS, 1201 E. Pecan St. Ph. 214-892-2111.

AUSTRALIA

Port Melbourne 3207 — SOUTHERN PACKERS PTY. LTD., 300 Ingles St. Ph. 644338. Telex AA337-30.

AUSTRIA

A 1011 Wien — KUNER NAHRUNGSMITTEL GESELLSCHAFT m.b.H. Div. Osterreichische Unilever Gesellschaft m.b.H., Rosengasse 4, Ph. (0222) 6619-0. Telex: 07-4080. Margarine, edible fats and foods.

A 4600 Wels — VEREINIGTE FETTWAREN-INDUSTRIE GmbH & CO. KG., Vogelweiderstr, 71-73. Ph. 05222-36771-16. Telex: 25528. Plants in Innsbruck, Wels and Vienna. Refiner, confectioning of vegetable oils and hardened fats.

CANADA

E. Hamilton, Ont. — PROCTER & GAMBLE INC., Burlington St.

Rexdale, Ont. M9W 1G9 — MONARCH FINE FOODS CO. LTD., 6700 Finch Ave. W. Ph. 416-675-1678. Rexdale telex: 06-989-485. Plants at Rexdale and Vancouver.

Toronto, Ont. M4V 1P2 — CANADA PACKERS INC., 95 St. Clair Ave. W. Ph. 416-766-4311. Telex 062-2257. Plants at Vancouver, Edmonton, Winnipeg, Toronto and Montreal. Refining, hydrogenation and deordorizing.

Toronto, Ont. M8N 3P4 — SWIFT CANADIAN CO. LTD., edible oil div., 30 Weston Rd. Ph. 416-766-3255. Telex 065-24050.

GERMANY

4040 Neuss — WALTER RAU NEUSSER OEL UND FETT AG, Industriestrasse 36, Ph. 02101 & 26041. Telex: D-08-517-827. Refining soy and other vegetable oils.

2100 Hamburg 90 — NOBLEE & THORL GmbH Div. of HENKEL KGaA, Dusseldorf. Seehafenstr, 24, P.O. Box 90-10-40. Ph. 77-16-81. Telex: 02-177-13 NOBLE D. Refinery and plant to produce all kinds of hardened, fractionated and interesteryficated oils and fats.

MALTA

Valetta — THE EDIBLE OIL REFINING CO. LTD., The Refinery, Mgieret Rd., Marsa, P.O. Box 539. Ph. 623613/621451. Telex MW420 OIL REF.

MEXICO

Mexico 14, D.F. — ACEITES POLIMERIZADOS S.A., Calzada Inguaran 5737, P.O. Box 14779. Ph. 577-39-23/25.

MOROCCO

Agadir — HUILERIE'S DU SOUSS, Quartier Anza, B.P. 135, Ph. 08-23130 or 22851. Telex: 81015. Pres. Bel Hassan; Gen. Mgr. El Balss. Table olives, olive oil, soy oil. Cap. 20,000 T per year soy oil.

Casablanca — CIA. MAROCAINE d'HUILLERIE (C:M.H.), 10 Place Mohammed V, Ph. 270303. Telex: 24601. Gen. Mgr. Takali Tawafik. Soy oil cap. 12,000 T.

Casablanca — LESIEUR, 1 Rue Caporal Corbi, Ph. 246636. Telex: 21674. Oil refining; soy, olive, sunflower and rapeseed.

Casablanca — UNIGRAL CRISTAL, 10-14 Rue Mostapha El maani, B.P. 253, Ph. 224176. Telex: 21063. Gen. Mgr. Lafon Andre. Soy oil and soap production cap. 40,000 T per year.

FES — SOMATAZ, Rue IBN Kayim (Dokkarat) Ph. 06-23512 or 20461. Telex: 51928. Gen. Mgr. Tazi Mohamed El Hadi; Tech. Dir. Bouklilia Mohamed. Soy oil cap. 40 T shift.

B.P. 256 FES — STE. MAROCAINE POUR L'INDUSTRIE OLEICOLE (Somio), 8 Rue Miara (Dokkarat), Ph. 06-22251 or 22056. Soy oil cap. 40 T shift.

Kenitra — OLEAGINEUX DU GHARB, Rue 13, Quartier Industrial, Ph. 016-2466 or 3683. Pres. Jennane Mohammed; Asst. Dir. Gen. El Haddad Abderrazak. Soy oil cap. 18,000 T per year.

Meknnes — HUILERIES DE MEKNNES, Quartier Sidi, B.P. 2021, Ph. 05-30091 or 30477. Gen. Mgr. Ben Brahim Messaoud. Table oils and olive oil production.

Meknnes — SOCIETE OLEICOLE DE MEKNNES (S.O.M.E.), Quartier Sidi, B.P. 248, Ph. 05-30865 or 30328. Gen. Mgr. Iahion Hamid. General canning, oil refining 700 T per year.

soy oil refiners . . .

SOUTH AFRICA

Randfontein, Transvaal, 1760 — S.A. OIL MILLS (PTY) LTD., subsidiary of Tiger Oats & National Milling Co. Ltd., Main Reef Rd. 011-6921720. Telex 8-7825. Soy oil expressing and extraction.

SWEDEN

S-251 07 Helsingborg, Sweden — MARGARINBOLAGET AB, P.O. Box 721, Ph. 042-18-02-80. Telex: 724 29 MARG S. Cable: MARGARINE HELSINGBORG.

TUNISIA

Mahdia — COOP. AGRICOLE et INDUSTRIELLE ZOUILA, Ave. Parnet Hached, Ph. 81-584. Cable: ZOULICAOP. Soy oil refining.

Monastir — STE. MONASTIRIENNE, Rue du Port, Ph. 61-379. Soy oil refining.

SFAX — SATHOP, Plage Poudriere. Soy oil refining.

SFAX — SIOS-ZITEX, Route ou Gabes, Soy oil refining.

SFAX — SMOILIVE, Route de Gabes, Soy oil refining.

Sousse — AFRICA S.A.R.L., Rte. de Monastir, Ph. 20-774 & 21-456. Cable: AFRICA SOUSSE — USINE. Soy oil refining.

Sousse — COMMERCIALE et INDUSTRIELLE S.A.R.L., Rte. de Monastir, Ph. 21-867 & 20-147. Cable: SOHACI SOUSSE-USINE. Soy oil refining.

Sousse — COOP. OLEICOLE TNE., Rte. de Monastir, Ph. 20-387. Soy oil refining.

Tunis — SAVONNERIE AFRICAINE S.A., Rte. de Sousse, Km. 5,8. Ph. 295-503 & 295-511. Telex: 12-548 USINE. Soy oil refining.

Tunis — SLAMA FRERES S.A.R.L., 53 rue Caton, Ph. 281-161 & 289-812. Soy oil refining.

Tunis — STE. MONCEF, ABDELMAOULA Rte. du Kef, Den-Den, Ph. 210-008/221138. Soy oil refining.

Tunis — STE. STARHUIL, Jebel Jelloud, Ph. 491-684. Soy oil refining.

food protein council

Shaping the Future of Food

Council Purposes

- To build awareness of the established nutritional properties of commercially available vegetable proteins, and to participate in the formulation of U. S. nutrition goals and policies.
- To assist government agencies, the scientific community, the food processing industry and public interest groups to better understand the role and use of vegetable proteins in the food system.
- To work toward harmonized world food regulations that permit and encourage maximum use of vegetable proteins in the world food supply.

Membership

Members of the Food Protein Council are firms that process and sell vegetable proteins or food products containing vegetable proteins.

Activities

The principal activity of the Food Protein Council is to broaden the acceptance of vegetable proteins as key components of the worldwide food system. To that end, the Council pursues programs of government relations, public affairs, media information, and international market liaison.

Food Protein Council
1800 M Street, N.W., Washington, D. C. 20036 (202/467-6610)

soy food manufacturers & handlers

BREAKFAST FOODS

ILLINOIS

Melrose Park 60160 — FEARN SOYA FOODS, Div. of Richard Foods Corp., 4520 James Place. Ph. 312-345-2335/6. Fearn's wheat cereal and soy.

MEXICO

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico Pan Americana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa. Cereal.

CANNERS OF SOYBEANS

OHIO

Mt. Vernon 43050 — LOMA LINDA FOODS, P.O. Box 388. Home office: Riverside, CA 92515. Ph. 714-785-2444. Boston-Style Soybeans and Green Soybeans.

MEXICO

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico Pan-Americana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa. Canned whole soybeans.

GROUND MEAT BINDERS

ILLINOIS

Alsip 60658 — GRIFFITH LABORATORIES, 12200 S. Central Ave. Ph. 312-371-0900. Proteinate GL-301, Procase, Pro-Blend, Promax.

Chicago 60612 — CUSTOM FOOD PRODUCTS INC., 730 N. Albany Ave. Ph. 312-722-7500. Sausage and loaf binders for sausage trade. Hamburger and loaf seasonings and binders for institutional trade.

Chicago 60631 — NATIONAL PROTEIN CORP., 8101 W. Higgins Rd. Ph. 312-399-3270. Low-fat soy flour and grits.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. PROCON soy protein concentrate, textured PROCON soy protein concentrate, BLAND 50 soy flour, 15-90 PDI soy flour and grits. MIRE-TEX textured vegetable proteins.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5420. Telex 232-410. Meat binders. Defatted, low-fat and lecithinated soy flours, soy grits, soy protein concentrate and textured soy flour.

Indianapolis 46222 — NORTH AMERICAN LABORATORY CO. INC., 1717 W. 10th St. Ph. 317-635-9500. Binders for meat products.

KANSAS

Hutchinson 67501 — FAR-MAR-CO. INC. Headquarters: 960 N. Halstead. Ph. 316-663-5711. Ground meat binders.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div., DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

Savage 55378 — DAIRYLAND PRODUCTS INC., 5345 West 125th St. Ph. 612-890-5305.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO. Ph. 800-325-7136. Purina Protein 220, Supro 50, Surpo 620.

NEW YORK

Long Island City 11101 — FIRST SPICE MIXING CO., 33-33 Greenpoint Ave. Ph. 212-361-2556. Other plants at 185 Arkansas St., San Francisco, CA 94107 and 98 Tycos Dr., Toronto, Ont., Canada. Texite brand extender and binder for meat products.

LECITHIN

ARKANSAS

Helena 72342 — RICELAND FOODS. Home office 2120 S. Park Ave., Stuttgart, AR. Ph. 501-673-5500.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500.

ILLINOIS

Chicago 60631 — FOOD TECHNOLOGY INC., 5903 Northwest Hwy. Ph. 312-631-4545. Hydroxylated lecithin for baked foods, dairy and confectionary foods. Research and development.

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850. Manufacturer of lecithin products for the edible and industrial trade.

Decatur 62526 — LUCAS MEYER (America) Inc., Div. of LUCAS MEYER HAMBURG, 765 Pythian St., Ph. 217-875-3660. Telex: 40-4387. Soy lecithin in modified and deoiled grades for food, dairy, industrial and pharmaceutical applications.

Decatur 62525 — ROSS & ROWE, Div. of Archer Daniels Midland Co., P.O. Box 1409. Also 554 S. Front St., Elizabeth, NJ 07202. Manufacturer of the complete line of Yelkin lecithin products.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. For chocolate, margarine, baking and other food and feed uses. STA-SOL, bleached and unbleached fluid grades.

Melrose Park 60160 — FEARN SOYA FOODS, Div. of Richard Foods Corp., 4520 James Place. Ph. 312-345-2335/6. Fearn's liquid lecithin.

INDIANA

Fort Wayne 46802—CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5181. Telex 232-410. A complete line of Centrol lecithin products for the edible, industrial and pharmaceutical fields. Natural, modified and oil-free lecithin.

MINNESOTA

Mankato 56001—HONEYMEAD PRODUCTS CO. Ph. 507-625-7911. Fluid and plastic grades.

NEW JERSEY

Somerset 08873—W. A. CLEARY CORP. (CLEARY TRADING CORP.) Ph. 201-247-8000. Also Belleville, Ont. Manufactures purified, crude and water soluble soy lecithin.

NEW YORK

Syracuse 13217—LEEDS LABORATORIES LTD., 1643 E. Genesee St. P.O. Box 6168. Ph. 315-475-1671. Granules and capsules.

Woodside, L.I. 11377—AMERICAN LECITHIN CO. INC. 32-34 61st St. Ph. 212-274-4350. Telex: 54-2238. Soybean lecithins and derivatives; lecithinated flours. Dietary supplements based on lecithin.

COLUMBIA

Buga-Valle—GRASAS S.A., Calle 11, No. 18-113. Ph. 2021/22/23. Telex 05866. LaGarza lecithin.

GERMANY

2000 Hamburg 28—LUCAS MEYER, Ausschlaeger Elbdeich 62. Ph. 781701. Edible lecithin and lecithin products for the food and pharmaceutical industry. Fluid, deoiled and fractionated grades.

D 2000 Hamburg 36 — UNIMILLS, Vertriebsgesellschaft für Ernährungsfette, Ole und Futtermittel mbH, Dammtorwall 15, Unileverhaus, Box 101509. Ph. 040-34901. Telex: 214571 (umil d) BOLEC. Lecithins; complete product range for edible, technical and animal applications.

Koln 30 — NATTERMANN CHEMIE GMBH, Nattermannallee 1, Ph. 509-1, Telex: 8881928. A complete line of lecithin products for the edible, industrial and pharmaceutical fields. Natural, modified, fractionated and oil-free lecithin.

MEXICO

C.D. Obregon Sonora—GALLETERA MEXICANA S.A. (GAMESO). Lecithin.

NETHERLANDS

NL 3330 Zwijndrecht — UNIMILLS B.V., Lindtsedijk 8, Box 18, Ph. 078-125144. Telex: 29031 (umil nl) BOLEC. Lecithins; complete product range for edible, technical and animal applications.

MARGARINE

CALIFORNIA

Los Angeles 90036—TOWN FOOD CO., P.O. Box 36125. Ph. 213-876-6000. Town PolyHi margarine with safflower and soy oils.

ILLINOIS

Chicago 60603—BEATRICE FOODS CO., 120 S. LaSalle St. Plants at Sunnyvale, CA.; Elgin, IL; Detroit, MI; Omaha, NE; Greenville, SC; and Dallas, TX.

Chicago 60690—KRAFT INC., 500 Peshtigo Ct. Ph. 312-222-4600.

Chicago 60604—SWIFT CO., 115 W. Jackson Blvd. Ph. 312-431-2000. Plant at Swift Canadian Co. Ltd., Toronto, Ont., Canada.

Evanston 60201—ALL-FRESH FOODS INC., 2156 Green Bay Rd. Ph. 312-869-3100.

KANSAS

Industrial Airport 66031 — HOLSUM FOODS, P.O. Box 32. Ph. 913-782-7171.

MARYLAND

Baltimore 21229—J.H. FILBERT, INC., 3701 Southwestern Blvd. Ph. 301-644-4900. Also 1591 Murphy Ave. SW, Atlanta, GA 30310. Retail, food service, and food processor.

MICHIGAN

Detroit 48238—SHEDD's FOOD PRODUCTS, 14401 Dexter Blvd. Ph. 313-869-6313. Telex 23-0731. Plants also at Sunnyvale, CA; Elgin, IL; Louisville, KY; Omaha, NE; Greenville, SC; and Dallas, TX.

MINNESOTA

Albert Lea 56007—HOLSUM FOODS,*, 919 14th St. Ph. 507-373-2431.

MISSOURI

St. Louis 63147—PVO INTERNATIONAL INC. Ph. 314-622-0200.

NEW JERSEY

Englewood Cliffs 07632 — BEST FOODS DIV. OF CPC INTERNATIONAL INC., International Plaza. Ph. 201-894-4000. Plants at San Francisco and Santa Fe Springs, CA; Chicago, IL; Bayonne, NJ.

NEW YORK

New York 10022 — LEVER BROS. CO., 390 Park Ave.

OHIO

Cincinnati 45217 — FOOD SERVICE DIVISION, THE MIAMI MARGARINE CO.,* 5226 Vine St. Ph. 513-242-2310.

Columbus 43216 — CAPITAL CITY PRODUCTS CO., Div. of Stokely Van Camp Inc., 525 W. 1st Ave., P.O. Box 569. Ph. 614-299-3131. Telex 245 494.

TEXAS

Dallas 75266 — ANDERSON CLAYTON FOODS, P.O. Box 226165. Ph. 214-387-1224.

Denison 75020 — BROOKSIDE DIV., Safeway Stores Inc., Drawer C. Home office: Oakland, CA, Ph. 415-944-4527.

WASHINGTON

Grandview 98930 — BROOKSIDE DIV., Safeway Stores Inc., Euclid St. & Forsell Rd. Home office: Oakland, CA, Ph. 415-944-4527.

AUSTRALIA

Richmond Vic. — NUTTELEX FOOD PRODUCTS, PTY. LTD., 594-600 Church St. Ph. 428-3585. Cable EDZORN.

CANADA

Rexdale M9W 1G9, Ont. — MONARCH FINE FOODS CO. LIMITED, 6700 Finch Ave. W. Ph. 416-

675-1678. Rexdale Telex: 05-989485. Plants at Rexdale and Vancouver.

Toronto M4V 1P2, Ont. — CANADA PACKERS INC., 95 St. Clair Ave. W. Ph. 416-766-4311. Telex 062-2257. Plants at Vancouver, Edmonton, Winnipeg, Toronto, Montreal.

GERMANY

4503 Dissen — FRITZ HOMANN Lebensmittelwerke GmbH & CO KG, P.O. Box 1180, Ph. 05421/311. Telex: 94311.

MEAT ANALOGS

CALIFORNIA

Riverside 92515 — LOMA LINDA FOODS, 11503 Pierce St. Ph. 714-785-2444. Soy sausages (three varieties), burger, canned and packaged sandwich spread and "meat" balls. Meatless Chicken made with spun soy fiber. New Meatless Swiss Steak and Sizzle Burger.

ILLINOIS

Chicago 60638 — MILES LABORATORIES INC., Grocery Products Div., 7123 W. 65th St. Ph. 312-458-6100.

Northbrook 60062 — GARRISON PRODUCTS INC., 1471 Paddock Dr. Ph. 312-729-4906.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div., DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

OHIO

Worthington 43085 — WORTHINGTON FOODS, div. of Miles Laboratories Inc., 900 Proprietors Rd. Ph. 614-885-9511. Vegetable protein entrees — over 45 canned, frozen and dehydrated products, simulating beef, pork and poultry.

AUSTRALIA

Wahroonga N.S.W. 2076 — SANITARIUM HEALTH FOOD CO., 148 Fox Valley Rd. Ph. 480206. Telex: 22064. Canned vegetable protein foods and textured vegetable protein.

MEXICO

Navojoa, Sonora—ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico PanAmericana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa.

MISCELLANEOUS

ILLINOIS

Chicago 60612 — CUSTOM FOOD PRODUCTS INC., 730 N. Albany Ave. Ph. 312-722-7500. Manufactures complete line of soup bases.

Evanston 60201 — ALL-FRESH FOODS INC., 2156 Green Bay Rd. Ph. 312-869-3100.

KANSAS

Hutchinson 67501 — FAR-MAR-CO. INC. Headquarters: 960 N. Halstead. Ph. 316-663-5711. Processed meat additives.

MICHIGAN

Detroit 48238 — SHEDD'S FOOD PRODUCTS,14401 Dexter Blvd. Ph. 313-869-6313. Telex 23-0731. Plants also at Sunnyvale, CA; Elgin, IL; Louisville, KY; Omaha, NE; Greenville, SC; and Dallas, TX. Manufactures "Willow Run" soy spread.

NEW JERSEY

East Hanover 07936 — NABISCO INC. Biscuit Div. Ph. 201-884-0500. Cookies, crackers and snacks.

Englewood Cliffs 07632 — BEST FOODS DIV. OF CPC INTERNATIONAL INC., International Plaza. Ph. 201-894-4000. Plants at San Francisco and Santa Fe Springs, CA; Chicago, IL; Bayonne, NJ. Frozen desserts.

Fair Lawn 07410 — LONZA INC., 22-10 Rt. 208. Ph. 201-791-7500. Niacin, NF; Niacinamide, USP, Sorbitol, Sorbiton, and polysorbates.

OHIO

Cleveland 44115 — DURKEE FOODS DIV., SCM CORP., 900 Union Commerce Bldg. Ph. 216-771-5121. Refineries at Chicago and Joliet, IL and Louisville, KY. Kaola, White Crest and Polyplus D. Frozen desserts.

MEXICO

Celaya, Guanajuato — PRODUCTOS NUTRICIONALES S.A. de C.V&, subsidiary of Miles Laboratories Inc. A Garcia Esq. Francisco Juarez. Ph. 5 31 3115. Oficinas: Lago Muritz 84-A., Mexico 17, D. F. Maxton, Temptein, Pro Lean.

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico Pan-Americana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa. Bread with soy additives.

ROASTED SOYBEANS

ILLINOIS

Franklin Park 60131 — FLAVOR TREE FOODS INC., 2645 N. Rose St. Ph. 312-455-4002. Snacks and confections.

IOWA

Hudson 50643 — EDIBLE SOY PRODUCTS, INC., 7th and Hwy. 63. Ph. 319-988-3221. Dehulled toasted soybeans, soybean halves, dry roasted, diced and toasted soybeans — 88% polyunsaturated fat and 10 essential amino acids, no solvents used.

MICHIGAN

Lansing 48910 — INARI, LTD., 2331 Forest Road. Ph. 517-882-3323. Telex 229440 MICH AGRI LSG. Whole roasted soynuts from identity preserved soybeans. Salted, unsalted, flavored to customer specification. I. P. soybeans for human consumption. Soy flour, grits.

MINNESOTA

Minneapolis 55402 — MALT-O-MEAL CO., 1700 Cargill Bldg. Ph. 612-338-8551. Plant at P.O. Box 6, Northfield, MN 55057. Soy Town roasted soybeans and Soy Ahoy.

HONEYMEAD PRODUCTS CO.

MANKATO:

GOLDEN-GLO
HIGH ENERGY
and
44% SOYBEAN MEAL

BULK OR SACKED
100 lbs. burlap — 50 lbs. paper

Defatted Soy Flour
Flakes
Edible – Industrial
Bulk – Sacks

MINNEAPOLIS:

34% LINSEED MEAL
30% SUNFLOWER MEAL

TRUCK OR RAIL DELIVERY

Honeymead
PRODUCTS COMPANY

P. O. Box 29
Mankato, MN
Phone: 507-625-7911

NORTH DAKOTA

Fargo 58102 — PIONEER SPECIALTY FOODS, P.O. Box 1568. Ph. 701-282-2397. Roasted and salted snack soybeans, soy flour and soybeans for human consumption.

HOLLAND

Tilburg — SOLNUTS B.V., Swaardvenstraat 41, P.O. Box 5066, 5004 EB Tilburg. Ph. 013-684991. Telex 52654 SOLNU NL.

SALAD OILS, COOKING OILS AND SHORTENING

ARKANSAS

Helena 72342 — RICELAND FOODS.* Ph. 501-673-5500. Home office: 2120 S. Park Ave., Stuttgart, AR 72160.

Stuttgart 72160 — RICELAND FOODS,* 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500. Salad and cooking oils, shortening and margarine base oils.

CALIFORNIA

Buena Park 90622 — HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398, Memphis, TN 38101. Ph. 714-523-0370. Manufactures shortening, salad and margarine oils.

Fullerton 92634 — HUNT-WESSON FOODS INC., 1645 W. Valencia Dr. Salad and cooking oils and shortening.

Los Angeles 90021 — S. E. RYKOFF & CO., 761 Terminal St. Ph. 213-622-4131. Mayonnaise, salad dressings, shortenings — SER, SERCO, GOLDEN REY and SILVER REY.

Richmond 94804 — BROOKSIDE DIV., Safeway Stores Inc., 2900 Hoffman Blvd. Home office: Oakland, CA, Ph. 415-944-4527.

GEORGIA

Savannah 31402 — HUNT-WESSON FOODS INC., P.O. Box 247. Salad and cooking oils and shortening.

ILLINOIS

Champaign 61823 — HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398, Memphis, TN 38101. Ph. 217-356-7213. Manufactures shortening, salad and margarine oils.

Chicago 60623 — HUNT-WESSON FOODS INC., 4421 W. 31st St. Salad and cooking oils and shortening.

Chicago 60690 — KRAFT INC., 500 Peshtigo Ct. Ph. 312-222-4600. Salad oil, salad dressings and shortening.

Chicago 60604 — SWIFT CO., 115 K. W. Jackson Blvd. Ph. 312-431-2352. Refinery: Swift Canadian Co. Ltd., Toronto, Ont., Canada.

Decatur 62526 — ARCHER DANIELS MIDLAND CO.,* 4666 Faries Pkwy. Ph. 800-637-5866. Archer cooking and salad oil, hydrogenated oils in bulk and packaged oils.

Decatur 62525 — A.E. STALEY MFG. CO., P.O. Box 151. Ph. 217-423-4415. Salad oils, cooking oils and hydrogenated oils bulk.

Evanston 60201 — ALL-FRESH FOODS INC., 2156 Green Bay Rd. Ph. 312-869-3100.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Refined Oil Div. Ph. 219-425-5373. Telex 232-410. Refiners of soybean, corn and palm oils. Manufactures salad and cooking oils, shortening and margarine oils at Decatur, IN, and Chattanooga, TN.

Indianapolis 46202 — JOHN SEXTON & CO., Beatrice Foods Co., 1800 Churchman Ave. Ph. 317-648-1100. Telex: 25-5230. Corporate office: 222 S. Riverside Plaza, Chicago, IL 60606. Ph. 312-648-1100. Salad dressings, shortening and other soybean based products supplier to food service industry..

KANSAS

Industrial Airport 66031 — HOLSUM FOODS, P.O. Box 32. Ph. 913-782-7171.

LOUISIANA

Gretna 70160 — HUNT-WESSON FOODS INC. Office: P.O. Box 61770, New Orleans. Salad and cooking oils and shortening.

MARYLAND

Baltimore 21229 — J.H. FILBERT, INC., 3701 Southwestern Blvd. Ph. 301-644-4900. Also 1591 Murphy Ave. SW, Atlanta, GA 30310. Mayonnaise, retail, food service, and food processor.

MICHIGAN

Detroit 48238 — SHEDD'S FOOD PRODUCTS, 14401 Dexter Blvd. Ph. 313-869-6313. Telex 23-0731. Also plants at Sunnyvale, CA; Elgin, IL; Louisville, KY; Omaha, NE; Greenville, SC; and Dallas, TX. Shedd's old-style dressing and salad product.

MINNESOTA

Albert Lea 56007 — HOLSUM FOODS, 919 14th St. Ph. 507-373-2431.

Mankato 56001 — HONEYMEAD PRODUCTS CO.* Ph. 507-625-7911. Savory-soy salad oil, margarine oil and hydrogenated oil.

MISSOURI

St. Louis 63147 — PVO INTERNATIONAL INC. Ph. 314-622-0200.

NEW JERSEY

Bayonne 07002 — HUNT-WESSON FOODS INC., 160 E. 22nd St. Salad and cooking oils and shortenings.

Englewood Cliffs 07632 — BEST FOODS DIV. OF CPC INTERNATIONAL INC., International Plaza. Ph. 201-894-4000. Plants at San Francisco and Santa Fe Springs, CA; Chicago, IL; Bayonne, NJ.

NEW YORK

New York 10022 — LEVER BROS. CO., 390 Park Ave. Plants at 6300 E. Sheila St., Los Angeles, CA 90022 and 1200 Calumet Ave., Hammond, IN 47320. Vegetable shortening.

Wilson 14172 — PFEIFFER'S FOODS INC. Manufacturers of pourable dressings with minor emphasis on mayonnaise and salad dressings.

OHIO

Cincinnati 45217 — FOOD SERVICE DIVISION, THE MIAMI MARGARINE CO.,* 5226 Vine St. Ph. 513-242-2310. Salad products.

Cincinnati 45201 — PROCTER & GAMBLE DISTRIBUTING CO., P.O. Box 599. Shortening.

Cleveland 44115 — DURKEE FOODS DIV., SCM CORP., 900 Union Commerce Bldg. Ph. 216-771-5121. Plants at Chicago and Joliet, IL and Louisville, KY. Standard and hydrogenated shortenings, cooking and salad oils.

Columbus 43216 — CAPITAL CITY PRODUCTS CO., div. of Stokely-Van Camp Inc., 525 W. 1st Ave., P.O. Box 569. Ph. 614-299-3131. Telex 245 494. Shortening, salad and cooking oils.

PENNSYLVANIA

Philadelphia 19134 — C. F. SIMONIN'S SONS INC., Belgrade and Tioga Sts. Ph. 215-426-2300. Salad and cooking oils.

SOUTH CAROLINA

Hartsville 29550 — HARTSVILLE OIL MILL,* 5th St. Produce refined salad oil, bulk, cooking and margarine oils and shortening.

TENNESSEE

Memphis 38101 — HUMKO PRODUCTS, KRAFT, INC. General office: Whitestation Towers, P.O. Box 398. Ph. 901-766-2100. Manufactures shortening, salad and margarine oils.

Memphis 38102 — HUNT-WESSON FOODS INC., P.O. Box 1759. Salad and cooking oils and shortenings.

TEXAS

Dallas 75266 — ANDERSON CLAYTON FOODS,* P.O. Box 226165. Ph. 214-387-1224.

Denison 75020 — BROOKSIDE DIV., Safeway Stores Inc., Drawer C, 1405 W. Washington. Home office: Oakland, CA; Ph. 415-944-4527.

WASHINGTON

Grandview 98930 — BROOKSIDE DIV., Safeway Stores Inc., Euclid St. & Forsell Rd. Home office: Oakland, CA; Ph. 415-944-4527.

WISCONSIN

Cudahy 53110 — PATRICK CUDAHY INC. Ph. 414-744-2000. Telex 269455. Shortenings.

AUSTRALIA

Port Melbourne 3207 — SOUTHERN PACKERS PTY. LTD., 300 Ingles St. Ph. 644338. Telex AA33730.

CANADA

Rexdale M9W 1G9, Ont. — MONARCH FINE FOODS CO. LIMITED, 6700 Finch Ave. W. Ph. 416-675-1678. Rexdale Telex: 06-989485. Plants at Rexdale and Vancouver.

Toronto M4V 1P2, Ont. — CANADA PACKERS INC., 95 St. Clair Ave. W. Ph. 416-766-4311. Telex 062-2257. Plants located at Vancouver, Edmonton, Winnepeg, Toronto and Montreal, Canada.

GERMANY

4503 Dissen — FRITZ HOMANN Lebensmittelwerke GmbH & Co. KG, P.O. Box 1180, Ph. 05421/311. Telex: 94311.

SEASONINGS

ILLINOIS

Chicago 60612 — CUSTOM FOOD PRODUCTS INC., 730 N. Albany Ave. Ph. 312-722-7500. Manufacturer of seasonings.

INDIANA

Indianapolis 46222 — NORTH AMERICAN LABORATORY CO. INC., 1717 W. 10th St. Ph. 317-635-9500.

NEW YORK

Long Island City 11101 — FIRST SPICE MIXING CO., 33-33 Greenpoint Ave. Ph. 212-361-2556. Other plants at 185 Arkansas St., San Francisco, CA 94107 and 98 Tycos Dr., Toronto, Ont., Canada.

PENNSYLVANIA

Bethlehem 18018 — DURKEE FOODS DIV., SCM CORP., 1001 8th Ave. Seasonings, condiments and coconut.

SOYBEANS FOR COOKING AND SPROUTING

CALIFORNIA

City of Industry 91746 — EL MOLINO MILLS, Div. of ACG Co., 345 N. Baldwin Park Blvd. Ph. 213-962-7167. Telex 674613. Cook's Best vegetable-edible variety soybeans.

ILLINOIS

Melrose Park 60160 — FEARN SOYA FOODS, Div. of Richard Foods Corp., 4520 James Place. Ph. 312-345-2335/6. Fearn's organically grown soybeans.

IOWA

Hudson 50643 — STRAYER SEED FARMS INC., Ph. 319-988-3640. Disoy, Kim, Marion, Beeson, Jade and Prize varieties for cooking, baking and foods manufacturing. Corsoy and Amsoy for sprouting.

SOY BEVERAGES

CALIFORNIA

City of Industry 91746 — EL MOLINO MILLS, Div. of ACG Co., 345 N. Baldwin Park Blvd. Ph. 213-926-7167. Telex 674613. Pure soya powder for making soy milk.

Los Angeles 90013 — MATSUDA-HINODE TOFU CO., 526 Stanford Ave., Ph. 213-624-3615. Bottled soymilk.[1/]

San Francisco 94080 — QUOUNG HOP, 161 Beacon St. S., Ph. 415-873-4444. Bottled soymilk.[1/]

GEORGIA

Atlanta 30301 — COCA COLA CO., P.O. Drawer

1734, Ph. 404-897-2121. Soymilk beverages for Brazil, Mexico, and Surinam. Brand names: Samson and Saci.[1]/

ILLINOIS

Melrose Park 60160 — FEARN SOYA FOODS, 4520 James Place. Ph. 312-345-2335/6. Fearn's pure soy powder for making soy milk.

IOWA

Cedar Falls 50613 — SOYPRO INTERNATIONAL, 314 Main St.[1]/

MASSACHUSETTS

Greenfield 01301 — NEW ENGLAND SOY DAIRY, 305 Wells St. Ph. 413-772-0746. Pure-Pak soymilk.[1]/

NEW YORK

Ogdensburg 13669 — MacDOWELL BROS. Office: P.O. Box 141, Brockville, Ont., Canada. Ph. 613-342-3606. Soy coffee (dietary food).

OHIO

Mt. Vernon 43050 — LOMA LINDA FOODS. P.O. Box 388. General offices: Riverside, CA 92515. Ph. 714-785-2444. Powdered and liquid soy milk in five varieties.

Worthington 43085 — WORTHINGTON FOODS, div. of Miles Laboratories Inc., 900 Proprietors Rd. Ph. 614-885-9511. Processing and packing powdered soy milk called Soyamel.

AUSTRALIA

Wahroonga, N.S.W., 2076 — SANITARIUM HEALTH FOOD CO., 148 Fox Valley Rd., Ph. 480206. Telex: 22064. Soya milk, liquids.

CHILE

Valparaiso — CRAV S.A., Calle Cochrane 867-2 piso. Ph. 3081. Telex: 30480 CRAV CL. Plant at Calle Limache 1,000, Vina de Mar. Fortesan soy beverage.

MEXICO

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico PanAmericana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa.

Mexico 17, D.F. — INDUSTRIAL DE ALIMENTOS S.A., 146 Poniente 789, Col. Ind. Vallejo. Ing. Felipe Suberbie, owner.

TAIWAN

Tainan (Yungkan) 711 — PRESIDENT ENTERPRISES CORP., 2-20 Yan Harng. Ph. (060) 232171. Soy milk.

SOY FLOUR, FLAKES AND GRITS

CALIFORNIA

City of Industry 91746 — EL MOLINO MILLS, Div. of ACG Co., 345 N. Baldwin Park Blvd. Edible soybeans, grits, flour and powder.

ILLINOIS

Chicago 60631 — NATIONAL PROTEIN CORP., 8101 W. Higgins Rd. Ph. 312-399-3270. Low-fat flour and grits.

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850. Nutrisoy edible soy flours and grits. ADM soybean brew flakes.

Decatur 62526 — LUCAS MEYER (America) INC. Div of LUCAS MEYER HAMBURG, 765 E. Pythian Ave., Ph. 217-875-3660. Telex: 40-4387. Fullfat soyflour, grits and flakes.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. Coarse, medium and fine grits. Toasted, medium toasted and untoasted flour and grits. 15-90 PDI soy flour and grits.

Melrose Park 60160 — FEARN SOYA FOODS, Div. of Richard Foods Corp., 4520 James Place. Ph. 312-345-2335/6. Pure soy powder, soy grits.

Park Ridge 60068 — CREST PRODUCTS INC., 1411 Peterson Ave. Ph. 312-774-8391. Manufacturers agents and consultants. Handler of soy flour and grits.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5508. Telex 232-410. Defatted, low-fat and lecithinatedand lecithinated soy flours, flakes, grits.

Seymour 47274 — THE ROBERTSON CORP., 111 S. Walnut. Also plants at Bedford and Brownstown, IN. Sepro-X (extruded-heat processed soybeans).

IOWA

Cedar Rapids 52406 — CARGILL INC., P.O. Box 2817. Ph. 319-366-8381. Tony Cahill.

KANSAS

Hutchinson 67501 — FAR-MAR-CO. INC. Headquarters: 960 N. Halstead. Ph. 316-663-5711.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div., DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

Mankato 56001 — HONEYMEAD PRODUCTS CO. Ph. 507-625-7911. Soy flakes; toasted, untoasted soy flour. Bulk and bagged.

Savage 55378 — DAIRYLAND PRODUCTS INC., 5345 West 125th St. Ph. 612-890-5305.

MISSOURI

St. Joseph 64502 — FARMLAND INDUSTRIES INC., St. Joseph Div., P.O. Box 427. Ph. 816-233-6161. Telex: 910-777-7189. Defatted soy flour and grits. Full toast, light toast and untoasted. Mesh flour, coarse-medium-fine grits. Bulk and bagged.

UTAH

Salt Lake City 84110 — STERLING H. NELSON & SONS INC., 525 S. 5th West, P.O. Box 1296. Ph. 801-355-8880. Grain-seed-feed-food merchants, also merchandisers of soybeans, rice, peanuts, etc. Soybean meal used in animal and poultry feeds (specializing in trout and salmon feeds). Selling

whole soybeans and soy flours for home and/or bakery use; and using lecithin in the manufacture of feeds.

AUSTRALIA

Kogarah 2217 — BARTON ADDISON & SONS PTY. LTD., 18 Gray St. Soy flour, Nu-Soy Bread Mix, Nu-Soy concentrate.

CANADA

Brockville, Ont. — MacDOWELL BROS. Ph. 613-342-3606. Also P.O. Box 141, Ogdensburg. NY 13669. Soy flour specially processed for diabetics, with gluten flour for bread and rolls and special gluten-free flours.

Toronto, Ont., M5A 1C2 — VICTORY SOYA MILLS LTD., 333 Lake Shore Blvd., East. Ph. 416-363-8771. Soywhite, fat-free flour and high N.S.I. soybean flour.

CHILE

Valparaiso — CRAV S.A., Calle Cochrane 867-2 piso. Ph. 3081. Telex: 30480 CRAV CL. Plant at Calle Limache 1,000, Vina del Mar.

GERMANY

2000 Hamburg 28 — LUCAS MEYER, Edelsoja GmbH, Ausschläger Elbdeich 21, Ph. 78-17-01. Fullfat soyflour, grits and flakes.

MEXICO

Ciudad Obregon, Sonora — LOS MOLINOS S.A., Apartado Postal 574, Zona Industrial No. 2, CD, Obregon. Ph. 3-46-90. Telex 055-839. Soy flour.

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico PanAmericana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa. Processed soy flour.

Mexico 17, D.F. — INDUSTRIAL DE ALIMENTOS S.A., 146 Poniente 789, Col. Ind. Vallejo. Ing. Felipe Suberbie, owner. Fully fatted and defatted soy flour.

SOUTH AFRICA

Randfontein, Transvaal, 1760 — S. A. OIL MILLS (PTY) LTD., subsidiary of Tiger Oats & National Milling Co. Ltd., Main Reef Rd. 011-6634331. Telex 8-7825. Edible grade soy flour.

SOY FLOUR MIXES

ILLINOIS

Melrose Park 60160 — FEARN SOYA FOODS, 4520 James Place. Ph. 312-345-2335/6. Fearn's Soy-O mixes including unbleached pancake mix, whole wheat pancake mix, corn muffin mix, bran muffin mix, wheat-free rice baking mix and low sodium pancake mix — all with soy. Buckwheat pancake mix, triticale pancake mix.

MINNESOTA

Red Wing 55066 — SPECIAL FOODS CO. Office: 503 Bush St. Ph. 612-388-5564 and 612-225-3153 (St. Paul). V-10 Protein Bread Mix, V-10 Protein Pancake and Waffle Mix, V-10 Protein Meat Mix, Sturdiwheat and Natural Grain Bread Concentrates and ProteinBlend for baking.

Maybe it's time to rethink your protein position

Times change, marketplaces expand and so do customer expectations. That's why it's so important to be certain your suppliers can meet **ALL** your needs. Dawson Food Ingredients provides a full line of soy-based food ingredients:

Meat Analogs, Spun Protein Fibrils, Isolated Soy Protein, Soy Fiber Concentrate, Textured Soy Flour, De-fatted Flour, Grits and Flakes.

Our specifications are consistent, our delivery is on-time and your product performance is our chief concern.

When you rethink your protein position, think DFI

dfi Dawson Food Ingredients™

7901 FLYING CLOUD DRIVE • MINNEAPOLIS, MINNESOTA 55344
(612) 944-6696 • TELEX 29-0473 DWSN FD ENPE

SOY OIL

ARKANSAS

HELENA 72342 — RICELAND FOODS. Home office: 2120 S. Park Ave., Stuttgart, AR. Ph. 501-673-5500.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500.

ILLINOIS

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5866.

Decatur 62525 — A. E. STALEY MFG. CO., P.O. Box 151. Ph. 217-423-4415. Salad oils and hydrogenated oils bulk.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Soybean Processing and Refined Oil Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5100. Telex 232-410. Crude degummed soy oils, refined industrial soy oils, refined edible soy, corn and palm oils.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO.* Ph. 507-625-7911.

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Ph. 612-475-7575.

MISSOURI

St. Louis 63147 — PVO INTERNATIONAL INC. Ph. 314-622-0200.

NEW JERSEY

Englewood Cliffs 07632 — BEST FOODS DIV. OF CPC INTERNATIONAL INC., International Plaza. Ph. 201-894-4000. Plants at San Francisco and Santa Fe Springs, CA; Chicago, IL; Bayonne, NJ.

OHIO

Cincinnati 45201 — PROCTER & GAMBLE DISTRIBUTING CO., P.O. Box 599. Edible oils.

Cleveland 44115 — DURKEE FOODS DIV., SCM CORP., 900 Union Commerce Bldg. Ph. 216-771-5121. Edible oil refineries at Chicago and Joliet, IL and Louisville, KY.

Columbus 43216 — CAPITAL CITY PRODUCTS CO., Div. of Stokely-Van Camp Inc., 525 W. 1st Ave., P.O. Box 569. Ph. 614-299-3131. Telex 245 494. Edible oil.

CANADA

Toronto, Ont. M5A 1C2 — VICTORY SOYA MILLS LTD., 333 Lake Shore Blvd., East. Ph. 416-363-8771. Degummed soybean oil and alkali refined/bleached soybean oil.

COLOMBIA

Buga-Valle — GRASAS S.A., Calle 11 No. 18-113. Ph. 2021/22/23. Telex 05866. Oliosoya edible oil, La Garza shortening.

DOMINICAN REPUBLIC

Santo Domingo — SOCIEDAD INDUSTRIAL DOMINICANA, C. por A., Ave. Maximo Gomez, Apartado No. 726. Ph. 809-565-1323.

UNITED KINGDOM

Tring, Herts HP 23 5EF — DUNDALE BULK PRODUCE LTD., Brook St. Ph. Tring (044 282) 5445. Telex: 825812/826715.

SOY PROTEINS

ILLINOIS

Chicago 60638 — MILES LABORATORIES INC., Grocery Products Div., 7123 W. 65th St. Ph. 312-458-6100.

Galesburg 61401 — GUNTHER PRODUCTS, Protein Div., A. E. Staley Mfg. Co., 701 W. 8th St. Ph. 309-342-0119. Vegetable proteins.

Melrose Park 60160 — FEARN SOYA FOODS, 4520 James Place. Ph. 312-345-2335/6. Instant mixing high-protein powder based on soy products. Vanilla, chocolate and carob.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5420. Telex 232-410. Soy flours, grits, textured flours, soy protein concentrates, textured soy protein concentrate and lecithins.

IOWA

Hudson 50643 — EDIBLE SOY PRODUCTS INC., 7th and Hwy. 63. Ph. 319-988-3221.

KANSAS

Hutchinson 67501 — FAR-MAR-CO INC. Headquarters: 960 N. Halstead. Ph. 316-663-5711.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div. DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

Minneapolis 55435 — HENKEL CORPORATION, 4620 W. 77th. Ph. 612-830-7906. Producers of Multi Purpose Food.

Savage 55378 — DAIRYLAND PRODUCTS INC., 5345 West 125th St. Ph. 612-890-5305.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO., Protein Div., Checkerboard Square. Ph. 800-325-7136. Supro 350, Supro 610, Supro 620, Supro 710, SPF200, Edi-Pro A, Supro 660, Supro HD-90, Supro 630, Supro 640T Fortiblend. Isolated soy protein for varied use in a variety of food products.

GERMANY

D 6380 Bad Homburg — INTERFOOD DEUTSCHLAND GmbH Div., Interfood Luxemburg SAH, Goldgrubenstr. 6A, Ph. 06172/22049. Telex: 0415840.

MEXICO

Naucalpan — GLUCOSA S.A., Naranja 159. Ph. 576-23. Manufacturer and distributor of hydrolized soy proteins.

SOY PROTEIN CONCENTRATES

ILLINOIS

Alsip 60658 — GRIFFITH LABORATORIES, 12200 S. Central Ave. Ph. 312-371-0900. GL-301, GL-219.

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. PROCON 2000, 2060 and textured PROCON.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5420. Telex 232-410. Promosoy, Response.

NETHERLANDS

NL 3330 Zwijndrecht — UNIMILLS B.V., Lindtsedijk 8, Box 18, Ph. 078-125144. Telex: 29031 (umil nl).

SOY PROTEIN ISOLATES

ILLINOIS

Melrose Park 60160 — FEARN SOYA FOODS, Div. of Richard Foods Corp., 4520 James Place. Ph. 312-345-2335/6. Fearn soy protein 91%.

IOWA

Muscatine 52761 — GRAIN PROCESSING CORP., 1600 Oregon. Ph. 319-264-4710. Telex 468497. High and low solubility isolates (90%) from soy flakes.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div., DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO. Ph. 800-325-7136. Baking needs. Dari-Pro line.

INDIA

Uttar Pradesh — VED BRAT & CO., subsidiary of Reg. Soya Protein Ltd. Office: 39-C, Prem House, Connaught Place, New Delhi-1, India. Ph. 352761 or 615100.

ITALY

Milan 20122 — I.P.V. INDUSTRIA PROTEINE VEGETALI S.p.A., subsidiary of Siderurgica Duina S.p.A., Corso Italia, 13. Ph. 02-879.070/ 861.257. Telex 25278 FINDUINA. Plant at Contrada Bagno, Cerano 28065. PROTAL 93% (dietetic) and PROTIND 90% (food enrichment).

SPUN SOY PROTEINS

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div., DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

OHIO

Worthington 43085 — WORTHINGTON FOODS, div. of Miles Laboratories Inc., 900 Proprietors Rd. Ph. 614-885-9511. Various vegetable protein meat-type analogs.

SOY SAUCE

CALIFORNIA

San Francisco 94101 — KIKKOMAN INTERNATIONAL INC., subsidiary of Kikkoman Shoyu Co. Ltd., 50 California St., P.O. Box 784, Suite 3600, Ph. 415-956-7750. Soy sauce and Teriyaki sauce.

ILLINOIS

Chicago 60616 — GREAT CHINA FOOD PRODUCTS CO., 2520-58 S. State St. Ph. 312-225-8600.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. Soybean and corn hydrolyzates and flavoring.

NEW YORK

Middletown 10940 — MANDARIN SOY SAUCE INC. 419 North St. Ph. 914-343-1505. Wanjashan soy sauce.

MEXICO

Naucalpan — GLUCOSA S.A., Naranja 159. Ph. 576-23-33. Manufacturer and distributor.

TAIWAN

Sanchung, Taipei 241 — WAN-JIA-SHIANG BREWERY CO. LTD., 80-1, Hope St. Ph. 9813183.9716446. Mandarin Soy Sauce.

Tainan (Yungkang) 711 — PRESIDENT ENTERPRISES CORP., 2-20 Yan Harng. Plant at 120 Tahying Vill., Hsinshi, Tainan, Taiwan 744. Ph. (060)232171.

Taipei 102 — WEI-CHUAN FOODS CORP., Taipei Plant: No. 518, Chung-Hsin Rd., Sec. 5, San-Chung City, Taipei-Hsien 241, Rep. of China. Ph. (02) 982111-9.

SOY STEROLS AND TOCOPHEROLS

MINNESOTA

Minneapolis 55435 — HENKEL CORPORATION. 4620 W. 77th. Ph. 612-830-7808. Telex 29-0472. Process soy oil deodorizer distillate at Kankakee, IL, plant. To produce soya sterols, tocopherols and natural vitamin E.

TEXTURED SOY PROTEINS (EXTRUDED)

ILLINOIS

Alsip 60658 — GRIFFITH LABORATORIES, 12200 S. Central Ave. Ph. 312-371-0900. Promate. GSVP and GSPC, customized extrusions.

Chicago 60638 — MILES LABORATORIES INC., Grocery Products Div., 7123 W. 65th St. Ph. 312-458-6100.

Chicago 60631 — NATIONAL PROTEIN CORP., subsidiary of National Can Corp., 8101 W. Higgins Rd. Ph. 312-399-3270. Textrasoy — a line of thermoplastic protein products and a wide variety of foods for both functional characteristics and nutritional values.

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850. TVP via extrusion process in meat flavors, nut flavors and unflavored.

ILLINOIS

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. MIRATEX, NUTR-MATE and VYTAL textured vegetable protein.

Evanston 60204 — BERNARD FOOD INDUSTRIES INC., 1125 Hartrey, P.O. Box 1497. Ph. 312273-4497. Manufacturer of institutional food products. TEX PRO 1 (hamburger), TEX PRO 2 (meat loaf), TEX PRO 3 (sloppy joe), TEX PRO 4 (chili mix), TEX PRO 5 (taco), TEX PRO 6 (veal and fish), TEX PRO 7 (spaghetti and lasagna) and TEX PRO 8 (pizza topping). Also plant at 222 S. 24th St. San Jose, CA 95103.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5361. Telex 232-410. Centex, textured soy flour; Response, textured soy concentrate. Also Bontrae steam texturized soy flours.

Indianapolis 46222 — NORTH AMERICAN LABORATORY CO. INC. 1717 W. 10th St. Ph. 317-635-9500. Flavored to be used for partial meat replacement.

KANSAS

Hutchinson, KS 67501 — FAR-MAR-CO. INC. Headquarters: 960 N. Halstead. Ph. 316-663-5711. Ultra-Soy.

MINNESOTA

Eden Prairie 55344 — DAWSON FOOD INGREDIENTS, INC. Div. DAWSON MILLS, 7901 Flying Cloud Dr., Suite 230. Ph. 612-944-6696. Telex: 290473. Food ingredients.

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Ph. 612-475-6318. Dick Swanson.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO. Ph. 800-325-7136. Supro 50.

Webb City 64870 — WILLIAMS FOODS INC., 1502 S. Madison. Office: 1900 W. 47th Place, Westwood, KS 66205. Ph. 913-831-2300. Williams Textured Vegetable Protein with seasonings.

NEW JERSEY

East Hanover 07936 — NABISCO INC., Protein Foods Div. Ph. 201-884-0500. Ad-Vantage Textured Vegetable Protein for use with meat, fish or poultry (and other applications.).

CHILE

Valparaiso — CRAV S.A., Calle Cochrane 867-2 piso. Ph. 3081. Telex: 30480 CRAV CL. Plant at Calle Limache 1,000, Vina del Mar. Crav protein.

COLOMBIA

Buga-Valle — GRASAS S.A., Calle 11, No. 18-113. Ph. 2021/22/23. Telex 05866. Carnavit textured vegetable protein.

INDIA

Uttar Pradesh — VED BRAT & CO., subsidiary of Reg. Soya Protein Ltd. Office: 39-C, Prem House, Connaught Place, New Delhi-1, India. Ph. 352761 or 615100. Manufacturer of textured vegetable protein.

MEXICO

Celaya, Guanajuato — PRODUCTOS NUTRICIONALES S.A. (PRONASA), subsidiary of Miles Laboratories, a Gea y DBFlo. Juarez. Ph. 545-83-22. Offices at Lago Xochimilco 225, Mexico 17, D.F. MAXTEN TEMPTEIN.

Navojoa, Sonora — ALIMENTOS COLPAC. Ph. 2-08-42. Affiliate of Liga Mexico PanAmericana Medio Educacional A.C., KM 13 Carratera Huatabampo, Apartado 502, Navojoa. Textured soy protein.

Mexico 17, D.F. — INDUSTRIAL DE ALIMENTOS S.A., 146 Poniente 789, Col. Ind. Vallejo. Ing. Felipe Suberbie, owner.

NETHERLANDS

NL 3330 Zwijndrecht — UNIMILLS B.V., Lindtsedijk 8, Box 18, Ph. 078-125144. Telex: 29031 (umil nl).

SOUTH AFRICA

Randfontein 1760 N/A — TIGER PROTEIN INDUSTRIES (PTY.) LTD., wholly owned subsidiary of Tiger Oats and National Milling Co., Fedler St. office: P.O. Box 575. Ph. 011-693-4231. Telex 8-3319SA. Manufacturers of textured vegetable protein and meat analogs — SOMOS textured vegetable protein, SOMOS protein stew flavors, SOSSIES and MEATLESS-BALLS.

TOFU MANUFACTURES AND SOY DAIRIES[1]/

CALIFORNIA

Los Angeles 90013 — MATSUDA-HINODE TOFU CO., 526 S. Stanford Ave., Ph. 213-624-3615/6.

San Francisco 94124 — AZUMAYA INC., 95 Boutwell St., Ph. 415-467-1955.

San Francisco 94080 — QUOUNG HOP, 161 Beacon St. S., Ph. 415-873-4444. Wine fermented tofu, nigari, tofu and soymilk.

MASSACHUSETTS

Greenfield 01301 — NEW ENGLAND SOY DAIRY, 305 Wells St. Ph. 413-772-0746.

WHIPPING AGENTS

ILLINOIS

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. Gunther whipping agents for food products

Galesburg 61401 — GUNTHER PRODUCTS, Protein Div., A. E. Staley Mfg. Co., 701 W. 6th St. Ph. 309-342-0119. Manufactures vegetable proteins and derivatives.

[1]/Source: New-age Foods Study Center

*Products manufactured contain 100% soy oil.

Yelkin Lecithin the natural product advantage for 50 years

Yelkin Lecithin reduces emulsifier costs, promotes more rapid and homogeneous mixing of ingredients, extends shelf life and improves texture and moisture retention. Yelkin Lecithin, the totally natural product from Ross & Rowe does all this and more. Here are a few of the ways it can work for you.

In prepared Cake, Pancake, and Waffle Mixes, Yelkin Lecithin promotes uniform mixing of ingredients when processed into the finished product. In the case of pancake and waffle mixes, Yelkin Lecithin also serves as a release agent.

Yelkin Lecithin promotes better distribution of the shortening and improves dough handling properties by requiring less dusting flour on forming machines. Because of its emulsifying effect, better moisture retention and increased shelf life are more noticeable.

Yelkin Lecithin added to the dough or batter insures a more homogeneous mixture of ingredients and acts as a lubricant for rotary-die cutters.

The addition of Yelkin Lecithin to such products as caramels, nougats and taffies, aids the [illegible] of sugar, prevents greasiness, graining and streaking.

Yelkin Lecithin does it naturally

For further information write or contact:

ROSS&ROWE, DIVISION OF ADM

Box 1409 Decatur, Illinois 62525 Telephone: 217-424-5801

BEST AVAILABLE COPY

industrial product manufacturers

COATED FABRICS

OHIO

Columbus 43216 — COLUMBUS COATED FABRICS CO., div. of Borden Chemical, Borden Inc., 7th & Grant Ave. Ph. 614-225-6060. Plastic sheeting, calendered wall coverings, coated fabrics and upholstery materials.

COATED PAPERS

MISSOURI

St. Louis 63188 — RALSTON PURINA CO., Polymer Div., Checkerboard Square. Ph. 800-325-7137. Pro-Cote proteins for board, wallpaper and paper coatings, on and off machine at all solids levels, sizing, calender and size press, paints pigment dispersants, printing inks, joint cements and water putties, general coatings and adhesives.

GLUES, PLYWOOD ADHESIVES

ILLINOIS

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850. Kaysoy industrial soy flours.

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. Soy products for use in manufacture of plywood adhesives.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO. Ph. 507-625-7911. Manufactures Lamisoy industrial soy flour.

WASHINGTON

Tacoma 98421 — PACIFIC RESINS & CHEMICALS INC., 1754 Thorne Rd. Ph. 206-572-8181. Adhesives for plywood, woodworking and allied industries.

INDUSTRIAL LECITHIN

ARKANSAS

Helena 72342 — RICELAND FOODS. Home office: 2120 S. Park Ave., Stuttgart, Ark. Ph. 501-673-5500.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500.

ILLINOIS

Decatur, IL 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. STA-SOL soy lecithin, bleached and unbleached fluid grades. Water dispersible grades available.

Decatur 62526 — LUCAS MEYER (AMERICA), INC. Div., LUCAS MEYER HAMBURG, 765 E. Pythian St. Ph. 217-875-3660. Telex: 40-4387. Soy lecithin in modified and deoiled grades for industrial applications.

Decatur 62525 — ROSS & ROWE, Div. of Archer Daniels Midland Co., P.O. Box 1409. Also 554 S. Front St., Elizabeth, NJ 07202. Manufacturer of R&R 551 Interface Modifier for latex, PVA and acrylic emulsion paints. Also manufacturer of the complete line of Yeikin lecithin products for oil base paints.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5181. Telex 232-410. Soy lecithins, a complete line of natural, modified grades for industrial, food and pharmaceutical fields.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO., Ph. 507-625-7911.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO., Soybean Div., Checkerboard Square. Ph. 800-325-7136. Pur-A-Lec lecithins, standard plastic and fluid grades, unbleached, as emulsifiers and dispersants.

NEW YORK

Buffalo 14240 — SPENCER KELLOGG DIV. OF TEXTRON INC. Ph. 716-852-5850. Manufacture Kelecan 1081 water dispersible lecithin.

GERMANY

Hamburg 28 — LUCAS MEYER, Ausschlaeger Elbdeich 62, Ph. 781 701. Lecithin and products for food, feed and technical applications. Fluid, deoiled and fractionated grades.

Koln 30 — NATTERMANN CHEMIE GMBH, Nattermannallee 1. Ph. 509-1. Telex: 8881928. Manufacturers of a complete line of lecithin products for the industrial field. Natural, modified, fractionated and oil free lecithin.

INDUSTRIAL SOY FLOUR

ILLINOIS

Decatur 62525 — A. E. STALEY MFG. CO., Protein Div., P.O. Box 151. Ph. 217-423-4411. Staley's extracted soy flours with 15-90-PDI range.

INDIANA

Fort Wayne 46802— CENTRAL SOYA, Chemurgy Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5508. Telex 232-410. Defatted soy flour - Prosoy L.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO., Ph. 507-625-7911.

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Ph. 612 475 6090. Guy Pontius.

CANADA

Toronto, Ont. — VICTORY SOYA MILLS LTD., 333 Lake Shore Blvd. East, M5A 1C2. Ph. 416-363-8771. Soywhite fat-free flour and high N.S.I. soybean flour.

INDUSTRIAL SOY OIL

ARKANSAS

Helena 72342 — RICELAND FOODS. Home office: 2120 S. Park Ave., Stuttgart, AR. Ph. 501-673-5500.

Stuttgart 72160 — RICELAND FOODS, 2120 S. Park Ave., P.O. Box 926. Ph. 501-673-5500.

ILLINOIS

Decatur 62525 — A. E. STALEY MFG. CO., P.O. Box 151. Ph. 217-423-4411. For use in alkyd resin formulation. Alkali refined soy oils, bleached and unbleached.

INDIANA

Fort Wayne 46802 — CENTRAL SOYA, Refined Oil Div., 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5373. Telex 232-410. Plants at Bellevue, OH; Decatur, IN; Chattanooga, TN.

MINNESOTA

Mankato 56001 — HONEYMEAD PRODUCTS CO. Ph. 507-625-7911. Industrial refined soy oils.

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Ph. 612 475 6625. Jack Yarger.

NEW YORK

Buffalo 14240 — SPENCER KELLOGG DIV. OF TEXTRON INC. Ph. 716-852-5850. Complete line of refined soy oils for use in alkyd resins, etc. Drisoy drying soy oil, modified soy oils for protective coatings.

MEXICO

Mexico 14, D.F. — ACEITES POLIMERIZADOS S.A., Calzada Inguaran 5737, P.O. Box 14779. Ph. 577-39-23/25. Refined, polimerized (thermal and/or oxidative), epoxidized (apolflex 70), resins for paint and varnishes and fatty acids (including linoleic acid).

LAMINATING

ILLINOIS

Decatur 62526 — ARCHER DANIELS MIDLAND CO., 4666 Faries Pkwy. Ph. 800-637-5850. Soybean proteins for paper and paperboard laminating.

MISSOURI

St. Louis 63188 — RALSTON PURINA CO., Soybean Div., Checkerboard Square. Ph. 800-325-7137. The Pro-Cotes and Purina Polymers for use in water resistant laminating, corrugating and tube winding adhesives. Sizes and tile coatings, texture paints and topping cements and general water resistant adhesive applications.

PAINTS AND VARNISHES

DELAWARE

Wilmington 19898 — E. I. du PONT de NEMOURS & CO. INC. Ph. 302-774-2421. Alkyd resin varnishes.

OHIO

Cleveland 44115 — GLIDDEN COATINGS AND RESINS DIV., SCM Corp., 900 Union Commerce Bldg. Ph. 216-771-5121. Paints, varnishes and lacquers.

Cleveland 44115 — SHERWIN-WILLIAMS CO. Ph. 216-566-2000. Paints, varnishes, enamels. Paint chemicals, pigments and dry colors.

PENNSYLVANIA

Pittsburgh 15222 — PPG INDUSTRIES INC., One Gateway Center. Ph. 412-434-3131. Telex: 86-6570. Paints, varnishes and lacquers.

TEXAS

Garland 75040 — DeSOTO INC., Chemical Coatings Div., 701 Shiloh Rd., P.O. Box 401268. Ph. 214-276-5181. Consumer and industrial enamel finishes.

PHILIPPINES

Bagong Ilog, Pasig, M. Manila — UNIVERSAL ROBINA CORP., E. Rodriguez Ave., Pasig, M. Manila Ph. 682-5402.

RESINS

KENTUCKY

Louisville 40208 — CELANESE POLYMER SPECIALTIES CO., Resin Div., P.O. Box 8248. Synthetic resins, such as alkyds, epoxies, curing agents, UFs, etc., furnished the paint and plastics markets.

NEW YORK

White Plains 10603 — REICHHOLD CHEMICALS INC. Ph. 914-682-5700. Telex 710-568-1373. Alkyd resins.

PHILIPPINES

Bagong Ilog, Pasig, M. Manila — UNIVERSAL ROBINA CORP., E. Rodriquez Ave., Pasig, M. Manila. Ph. 682-5402.

SOAPS

OHIO

Cincinnati 45201 — PROCTER & GAMBLE CO., P.O. Box 599.

CANADA

Toronto, Ont., M4V 1P2 — CANADA PACKERS INC., 95 St. Clair Ave. W. Ph. 416-766-4311.

IRAN

Tehran — PARS VEGETABLE OILS CO., Farahabad Khazaneh. Ph. 312203-9. Offices: 483 Ave. Hafez, P.O. Box 1982, Tehran. Bath and laundry soaps.

SOYBEAN FATTY ACIDS

MISSOURI

St. Louis 63147 — PVO INTERNATIONAL INC. Ph. 314-622-0200.

NEW JERSEY

Newark 07101 — A. GROSS & CO., MILL-MASTER ONYX GROUP, KEWANEE INDUSTRIES INC., P.O. Box 818. Plant at 652 Doremus Ave., Newark, NJ 07105. Ph. 201-344-0900.

OHIO

Cincinnati 45202 — EMERY INDUSTRIES INC., Carew Tower. Ph. 513-762-6200. Telex: 810-461-2412. Emery 610 soya fatty acid. Emersol 315 linoleic acid by the Emersol process for separation of liquid and solid components of soya fatty acids by selective solvent crystallization.

Columbus 43215 — CAPITAL CITY PRODUCTS CO., div. of Stokley-Van Camp Inc., chemical div., 525 W. 1st Ave., P.O. Box 569. Ph. 614-299-3131. Telex 245494. Capital 172 distilled and Capital 182 doubledistilled soy fatty acids.

AUSTRALIA

Port Melbourne 3207 — SOUTHERN PACKERS PTY. LTD., 300 Ingles St. Ph. 644338. Telex AA33730.

CANADA

Toronto, Ont., M4V 1P2 — CANADA PACKERS INC., Chemical div., 95 St. Clair Ave. W. Ph. 416-766-4311.

equipment & supplies

ASPIRATORS

MICHIGAN

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Clipper air cleaner.

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex 29-0445. Aspirators and dehullers.

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000.

Thief River Falls 56701 — FORSBERGS INC., Airport Rd. Ph. 218-681-1927. TWX 910-561-2634.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 NEUMUNZ LEON. Complete soybean dehulling systems.

NEW YORK

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Eureka scourers and air finishers.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

TEXAS

Fort Worth 76109 — HAYES & STOLZ INDUSTRIAL MFG. CO. INC., P.O. Box 11217. Plant at 3521 Hemphill St.

AUTOMATIC SAMPLERS

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. TWX 910-221-5588.

Evanston 60204 — BURROWS DIV., SEEDBURO EQUIPMENT CO., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332.

Warrensburg 62573 — JAHAM MFG. CO. INC., P.O. Box 365. Ph. 217-672-3588. Pneumatic grain probe sampler and ticket return system.

IOWA

Des Moines 50309 — QUALITY CONTROL EQUIPMENT CO., 1916 Dean Ave. Ph. 515-266-2268. Automatic samplers for whole beans, meal, flour, etc. Our Cross cutting samplers are approved by USDA for grain sampling.

MINNESOTA

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Complete line of belt, spout samplers, electric and pneumatic drives.

NEBRASKA

Omaha 68137 — INTERNATIONAL-STANLEY CORP., 13330 "I" St. Ph. 402-330-1500, 800-228-9257. Automatic truck probes; infrared analyzers.

TEXAS

Dallas 75248 — GUSTAFSON, INC. 17400 Dallas North Parkway, Suite 220. Ph. 214-661-1334. Telex: 73-0957. Other offices: 6600 Washington Ave. S., Eden Prairie, MN. Manufacturer of seed treating equipment and automatic sampling systems, manufacturer and distributor of seed treating chemicals.

AUTOMATION

ILLINOIS

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Automation for process control. Controls, instruments and control panel boards.

MINNESOTA

Minneapolis 55422 — CONTROL ASSEMBLIES CO., 5735 Lindsay St. Ph. 612-544-3364. Automated control systems. Instrumentaion, process control systems.

TENNESSEE

Memphis 38116 — PSI-PROCESS SYSTEMS INC., 2930 Airways Blvd. Ph. 901-345-8760. Automation of process operations including supply of instruments, controls, control panels, graphics along with detailed engineering, construction and start-up services.

TEXAS

Waco 76710 — CROW SCALES INC., 315 Cotton Dr., P.O. Box 7429. Ph. 817-772-6070. Manufactures M-100 Seed-O-Meter and M-200 Twin Redhead.

BAGGING EQUIPMENT

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Evanston 60204 — BURROWS DIV., SEEDBURO-EQUIPMENT CO., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332.

IOWA

Humboldt 50548 — THE CHANTLAND CO., div. of Douglas & Lomason Co., P.O. Drawer A. Ph. 515-332-4040. Bagging machines, conveyors, elevators, bulk handling equipment.

MINNESOTA

Minnapolis 55406 — DAVE FISCHBEIN CO., 2700 30th Ave. S. Ph. 612-721-4806. Telex 29 0963. Other plants at Cie. Fischbein S.A., 64 Rue Previnaire, Brussels 7, Belgium, Telex 63203 and Dave Fischbein of Canada, Ltd., P.O. Box 662, 324 Burritt St., Stratford, Ontario, Canada N5A 6V6. Ph. 519-271-8101. Telex 06-968572. Manufactures bag closing equipment. Portable and high-speed heavy-duty bag closers.

NEW JERSEY

Clifton 07015 — HOWE RICHARDSON SCALE CO., 680 Van Houten Ave. Ph. 201-471-3400. Telex 133494. Bag packers.

NEW YORK

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Eureka auger-type feed and flour packers.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

BELGIUM

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

BAG MANUFACTURERS

ARKANSAS

Jacksonville 72076 — GREAT PLAINS BAG CORP., 1031 Redmond Rd. Bag manufacturer — multiwall and polyethylene.

CONNECTICUT

Greenwich 06830 — CHASE BAG CO., Two Greenwich Plaza. Factories in Crossett, AR; Los Angeles, CA; Sibley, IA; New Orleans, LA; St. Louis, MO; Buffalo, Goshen and Hudson Falls, NY; Reidsville, NC; Toledo, OH; Portland, OR; Dallas, TX; and Newport News, VA. Offices in principal cities. Multiwall paper, plastic, burlap, laminated, open-mesh and cotton bags.

IOWA

Des Moines 50321 — GREAT PLAINS BAG CORP., 2201 Bell Ave. Bag manufacturer — multiwall, polyethylene.

MINNESOTA

Rosemount 55068 — GREIF BROS. CORP., 2750 145th St. W. Ph. 612-423-2216. Multiwall paper bags for soybean seed and soybean meal.

OHIO

New Philadelphia 44663 — GREAT PLAINS BAG CORP., Reiser Ave. Bag manufacturer — multiwall and polyethylene.

TENNESSEE

Memphis 38112 — LANGSTON COMPANIES INC., 2714 Union Ave. Ph. 901-454-1100. Manufacturer of multiwall paper bags, new and processed cotton and burlap bags for sacking soybeans and soybean meal. Lion knotless cotton bag closing machine thread. Lion cotton sail twine for hand closing.

Nashville 37219 — WERTHAN INDUSTRIES INC., 2100 Pkwy. Towers. Ph. 615-259-9331. New burlap and cotton textile bags and multiwall paper bags, free film plastic and woven polypropylene bags for sacking soybeans and soybean meal.

BEARINGS

INDIANA

Indianapolis 46206 — FMC CORP., Bearing Div., 7601 Rockville Rd., P.O. Box 85, Ph. 317-241-9201. Telex 27-349, answer back LB BRG IND B. Clyindrical roller bearings, ball bearings and ball bearing units, self-aligning spherical roller bearings and spherical roller bearing units. Babbit, bronze and carbongraphite sleeve bearing units.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

BELTING

ILLINOIS

Warrensburg 62573 — UNION IRON CO., P.O. Box 248. Ph. 217-672-3532.

INDIANA

Mishawaka 46544 — DODGE DIV., Reliance Electric Co. Ph. 219-256-1551. V-belts, drives and sheaves.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

NEW JERSEY

Englewood 07631 — SIEGLING AMERICA INC., 130 Coolidge Ave. Ph. 201-567-6100. Conveyor and power transmission belting for most applications.

NORTH CAROLINA

Charlotte 28230 — SCANDURA INC., P.O. Box 30606 1801 N. Tryon St. Ph. 704-334-5353. PVC elevator and conveyor belting.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Elevator, conveyor and power transmission beltings.

CHAINS

INDIANA

Indianapolis 46206 — FMC CORP., Chain Div., P.O. Box 346B. Ph. 317-267-2200. Chains of all types for conveyors, elevators and drives.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

MINNESOTA

Minneapolis 55422 — LAKELAND ENGINEERING EQUIPMENT CO., 5735 Lindsay St. Ph 612-544-0321. Other plants at 940 W. Eldorado, Decatur, IL, 412 Water St., Sioux City, IA, 3100 S. 44th, Kansas City, KS; and P.O. Box 27332, Omaha, NE. Distributor of several lines of chains.

OHIO

Worthington 43085 — POWER TRANSMISSION DIV., Dresser Industries Inc., 400 W. Wilson Bridge Rd. Ph. 614-421-3123. All types and sizes of chains.

TEXAS

Fort Worth 76101 — FORT WORTH STEEL AND MACHINERY DIV., Houdaille Industries, Inc., 3600 McCart, P.O. Box 1038. Ph. 817-924-4255.

CONVEYORS, ELEVATORS

COLORADO

Denver 80223 — MACHINERY DEVELOPMENT INC., 2000 S. Cherokee St. Ph. 303-825-8245, 733-5642. E-Z Lift carriage conveyor for moving bulk or packaged materials; E-Z Lift field loader.

FLORIDA

Miami 33169 — AMERICAN DRYING SYSTEMS INC., 1135 NW 159 Dr. Ph. 305-621-1252. Subsidiary of Atlas Metals. Bucket elevators and screw conveyors.

ILLINOIS

Batavia 60150 — DUNBAR KAPPLE, 100 North Island. Ph. 312-879-2200. Telex 720438 DUNBAR

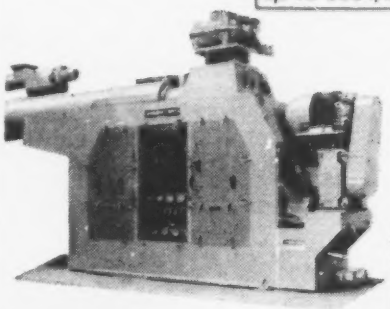
DCR = QUALITY, RENTABILITY, PRICES AND SERVICE

COMPLETE OIL MILLS

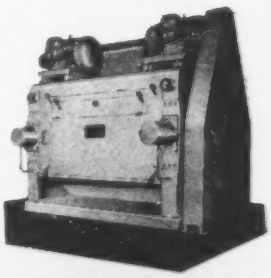
SOY—RAPE—PEANUTS—KERNELS—SUNFLOWER—COPRAH—KARITE—LIN—COTTON UP TO 2.500 To/24 H. (AT YET)

THE "REEL" MOST CAPACITIVE ON THE WORLD!

GRINDERS up to 550T/24h AND FLAKERS 840T/24H



EXPELLERS
SP. 50 DUAL
PP. 125 MONO
PP. 200 MONO



FLAKER. DC. 420To/d.

DAMIAN-GROES

55 SPANJESTER. ROESELARE (B) TELEX. 81.548

BVAI. Portable pneumatic conveyors (vac-u-vators). Total transfer capability in grains, chemicals, flowable materials.

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex TWX 910-221-5588.

Compton 61318 — MAYRATH INDUSTRIES INC., U.S. Rt. 51 N. (home office). Ph. 815-497-3311. Also divisions at Columbus, OH; Dodge City, KS; Memphis, TN; Minot, ND; Monmouth, IL; Sioux Falls, SD. Bin unloading equipment.

Downers Grove 60515 — FLEXIBLE STEEL LACING CO., 2525 Wisconsin. Ph. 312-971-0150. Telex 728383. Manufacturer of conveyor belt lacing and accessories such as belt cutters, clamps, etc.

Evanston 60204 — BURROWS DIV. Seedburo Equipment Co., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332.

Warrensburg 62573 — UNION IRON CO., P.O. Box 248. Ph. 217-672-3532.

INDIANA

Hammond 46320 — SCREW CONVEYOR CORP., 757 Hoffman St. Ph. 219-931-1450. Hammond Screw-Lifts (vertical screw elevator), Super-Flo conveyor (drag-type conveyors), screw conveyor troughing and accessories; Tite-Seal screw conveyor box U edging and cover clamps; a complete line of standardized units including elevator buckets and bucket elevators.

IOWA

Cedar Rapids 52406 — DIVINE ENGINEERING INC., 5440 6th St., SW, P.O. Box 1345. Ph. 319-365-0564. Divinalators - en masse conveyors. Conveyor, feeder, elevator or combination; vapor, liquid or dust tight.

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610. NEW-LA-GATOR en-masse conveyor.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431. Enclosed flight conveyors, belt and screw conveyors, bucket elevators.

Humboldt 50548 — THE CHANTLAND CO., div. of Douglas & Lomason Co., P.O. Drawer A. Ph. 515-332-4040. Bulk conveyors, elevators.

Waterloo 50701 — UNIVERSAL INDUSTRIES, 1575 Big Rock Rd., West. Ph. 319-291-3800. Telex 465628. Also 10 Tanglewood Dr., Caledon, Ont., Canada. Conveyors, bucket elevators for handling all materials.

KANSAS

Dodge City 67801 — SPEED KING MFG. CO. INC., P.O. Box 1438. Ph. 316-227-7106. Offices: P.O. Box 924, Newnan, GA 30264; 105 Blair, Normal, IL 61751; P.O. Box 323, Iowa City, IA 52240. Belt-Veyor tubular conveyors, bucket elevators, undercar conveyors, belt conveyors, augers and portable elevators.

Salina 67401 — THE WYATT MFG. CO. INC., P.O. Box 1227. Ph. 913-825-5441. Telex 417330. Augers, grain bin unloading equipment and grain spreaders. Bucket elevators.

Wichita 67214 — TRAMCO METAL PRODUCTS, INC., 1011 E. 19th. Ph. 316-264-4604. Chain and drag conveyors.

LOUISIANA

New Orleans 70177 — NADUSTCO INC., Claiborne, Poland, Derbigny and Kentucky Sts., P.O. Box 3445. Ph. 504-949-8373.

MICHIGAN

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Elevator heads and boots, complete elevating legs in super-duty steel construction and standard steel construction. Vibrating pits, vibrating conveyors and belt conveyors.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. All mechanical and pneumatic handling equipment, including conveyors loading and unloading barges and ships.

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Pneumatic conveying.

Minneapolis 55422 — LAKELAND ENGINEERING EQUIPMENT CO., 5735 Lindsay St. Ph. 612-544-0321. Other plants at 940 W. Eldorado, Decatur, IL; 412 Water St., Sioux City, IA; 3100 S. 44th, Kansas City, KS; and P.O. Box 27332, Omaha, NE. Distributor of conveyors and elevators.

MISSISSIPPI

Greenville 38701 — REED-JOSEPH CO., Hwy. 1 N. Ph. 601-335-2341. Subsidiary of International Systems & Controls Corp. Conveyors.

NEW YORK

Croton-on-Hudson 10520 — GENERAL SPLICE CORP., Rt. 129, P.O. Box 158. Ph. 914-271-5131. Telex 131 464. Minet fasteners for conveyor belting, belt clamps, repair materials for conveyor belts and cements and pulley lagging.

Honeoye 14471 — STONE CONSTRUCTION EQUIPMENT INC., 32 Main. Ph. 716-229-5141. Manufactures construction equipment.

NORTH CAROLINA

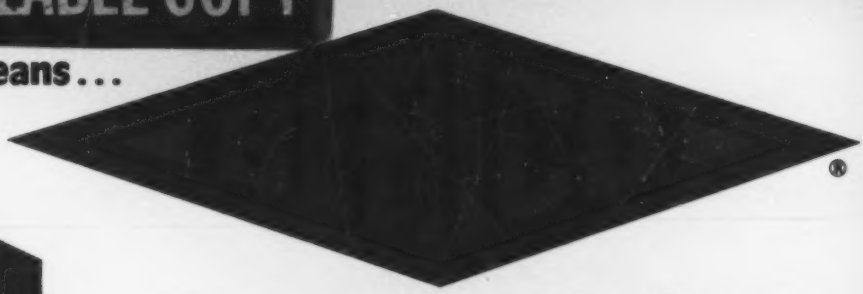
Raleigh 27611 — AEROGLIDE CORP., P.O. Box Aeroglide, 7100 Hillsborough Rd. Ph. 919-851-2000. Plant also at Orlando, FL. Bucket elevators standard up to 10,000 b.p.h.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411. Screw, sliderboard belt, chain drag conveyors; bucket elevators; Pneu-Vac®negative, Pneu-Flo™ positive; Pneu-Pac® package pneumatic bulk materials handling systems; portable pneumatic systems

BEST AVAILABLE COPY

No. 1 for soybeans...



Process Driers

Field proven... with more features and benefits:

- **Maximizes fuel efficiency...** Full Recirculating Air System... with a recycle air cleaning device that cleans all recycle air. Much safer, too.
- **More production capacity...** Patented TURN-FLO column mixing action provides uniform drying for more process efficiency and capacity.
- **Tapered column design —** exclusive. Narrow at top and wider at bottom... resulting in 1) increased drying capacity, 2) better fuel efficiency and 3) uniform drying.
- **Cleaner inside...** All recirculated air is cleaned air. Minimizes exhaust air and effluent to atmosphere, too.
- **Insulated enclosure —** non-pressurized. Operator serviceability. No drying floors or compartments to clean!
- **Automatic** moisture control device.
- **Proven fuel efficiency... proven reliability... proven design...** with capacities to 10,000 Bu/hr or more.

RECIRCULATING SYSTEM Patent No. 4,048,727
TURN-FLO Patent No. 3751824

Gain the benefit of Berico's Process Drying experience! Call or write...

BERICO INDUSTRIES

P.O. BOX 12285 • OVERLAND PARK, KANSAS 66212 • TELEPHONE 913/341-8660

SOUTH CAROLINA

Belton 29627 — CONVEYOR COMPONENTS OPERATIONS, JEFFREY MFG. DIV., Dresser Industries Inc., P.O. Box 158. Ph. 803-338-7793. Conveyors and bucket elevators.

SOUTH DAKOTA

Salem 57058 — FETERL MFG. CO. Ph. 605-425-2206. Conveying equipment and portable grain augers.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Screw conveyors, belt conveyors, bucket elevators, vertical screw lift and portable conveyors.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel Fabricator, Conveyors, elevators and elevator buckets.

Memphis 38106 — MANUFACTURERS MAINTENANCE SERVICE, INC., 83 West E. H. Crump Blvd. Ph. 901-948-2564.

TEXAS

Dallas 75223 — TRIPLE/S DYNAMICS INC.,1031 S. Haskell Ave. Ph. 214-821-9143. Telex 730 023. Also operates Triple/S Dynamics Breckenridge Inc., Ivan Star Rt., Breckenridge, TX. Manufactures vibrating conveyors.

Fort Worth 76101 — FORT WORTH STEEL & MACHINERY DIV. Houdaille Industries Inc., P.O. Box 1038, 3600 McCart St. Ph. 817-924-4255. Telex 758-249. Screw conveyors and elevators.

Fort Worth 76109 — HAYES & STOLZ INDUSTRIAL MFG. CO. INC., 3521 Hemphill St. Office: P.O. Box 11217. Ph. 817-926-3391. Bucket elevators and screw feeders.

Ft. Worth 76101 — THOMAS CONVEYOR CO., INC., P.O. Box 2916. Ph. 817-295-7151. Helicoid and sectional screw conveyors; Fli-Con drag con veyors; standardized or custom-designed bucket elevators; complete conveyor engineering and design.

WISCONSIN

Green Bay 54301 — FEECO INTERNATIONAL INC., 3913 Algoma Rd. Ph. 414-468-1000. Telex 263456.

DRYING AND AERATION EQUIPMENT

ILLINOIS

Decatur 62526 — BURDICK AERATION & ELECTRONICS CORP., P.O. Box 2207. Ph. 217-422-9000. Design, manufacture, service and installation.

Taylorville 62568 — MID-AMERICA PRODUCTS INC., Rt. 48 W., P.O. Box 147. Ph. 217-824-9671. Drying and aeration equipment.

IOWA

Boone 50036 — GEORGE A. ROLFES CO. INC., P.O. Box 458. Ph. 515-432-3300. TWX 910-520-2431. Natural air drying systems for farm storages. Fans and supplemental heaters with built-in controls. Aeration systems for all sizes and types of grain storage facilities.

Mason City 50401 — DAVID MFG. CO., 1600 12th St., NE. Ph. 515-423-6182. Stirring devices.

KENTUCKY

Louisville 40222 — AMERICAN DRYNAMICS, INC., P.O. Box 22588, Ph. 502-425-6716.

NORTH CAROLINA

Raleigh 27611 — AEROGLIDE CORP., P.O. Box Aeroglide, 7100 Hillsborough Rd. Ph. 919-851-2000. Plant also at Orlando, FL. GBS grain and soybean dryers — batch and continuous flow models (50 to 300 bu/hr capacity).

TEXAS

Slaton 79364 — SIKES MACHINE SHOP, 2100 Industrial Dr., P.O. Box 370. Ph. 806-828-6568.

GERMANY

D 3500Kassel-Bettenhausen — HANS VETTER MASCHINENFABRIK, Leipziger St. 106, P.O. Box 310 260. Ph. 0561-56081. Telex: 99667. Conditioning crushed soybeans. Pre-desoventizing, drying and cooling of soybean meal.

HOLLAND

Zevenbergen — MACHINEFABRIEK BRABANT D.v. OPSTAL B.V., Generaal Allenweg 2. Ph. 01680-25900. Manufacture drying equipment.

GRAIN DRYERS

FLORIDA

Miami 33169 — AMERICAN DRYING SYSTEMS, INC., 1135 NW 159 Dr. Ph. 305-621-1252. Subsidiary of Atlas Metals. Manufacture and sale of crop drying equipment.

GEORGIA

Atlanta 30349 — AMERICAN FARM EQUIPMENT CO., 1597 Phoenix Blvd. Suite 5. Affiliate of AFE Industries Inc. Completely automated grain dryers.

ILLINOIS

Crystal Lake 60014 — MATHEWS CO., 500 Industrial Ave., P.O. Box 70. Ph. 815-459-2210. Twelve MC Continuous flow and recirculating grain dryers, two Automatic Batch Dryers — farm and commercial models

Decatur 62526 — BURDICK AERATION & ELECTRONICS CORP., P.O. Box 2207. Ph. 217-422-9000. Designers, manufacturers and installers of drying and aeration equipment.

Marengo 60152 — CHICAGO EASTERN CORP., 200 N. Prospect St. Ph. 815-568-7264. Manufacturer of hi-capacity continuous flow and centrifugal grain dryers.

INDIANA

Attica 47918 — DRIALL INC., P.O. Box 309. Ph. 317-295-2255. DriAll continuous flow grain dryers.

Indianapolis 46203 — FARM FANS INC., 5900 Elmwood Ave. Ph. 317-787-6341. Manufacturer of grain dryers and aeration fans.

IOWA

Des Moins 50317 — CAMPBELL INDUSTRIES INC., 3201 Dean Ave. Ph. 515-265-5331. Telex 478 396. Manufactures custom-designed grain dryers.

New Hampton 50659 — HARVESTALL INDUSTRIES INC., 3 N. Walnut Ave. Ph. 515-394-4115. Grain drying systems. Fans and electric grain-lamp heater, controls. "Grain Ecology" — a textbook on managing grain electrically.

KANSAS

Overland Park 66212 — BERICO INDUSTRIES, P.O. Box 12285. Ph. 913-341-8660. Telex 424142. Cable BERICOIND. Soybean dryers for storage or processing.

MICHIGAN

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Clipper Town & Country screen dryers for soybeans, grains and rice. Continuous flow capacities from 300 to 6,000 bu/hr.

MINNESOTA

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave., NE. Ph. 612-571-1000. Large capacity HC dryers

NORTH CAROLINA

Raleigh 27611 — AEROGLIDE CORP., P.O. Box Aeroglide, 7100 Hillsborough Rd Ph. 919-851-2000. Plant also at Orlando, FL. Commercial grain and soybean dryers, batch or continuous types, 350 to 6,000 bu/hr capacity.

OHIO

Findlay 45840 — KUSS CORP. Ph. 419-423-9040 — Mfg. of air-inflated plastic solar collector system supplying auxiliary heat for drying grain and other farm applications.

TENNESSEE

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

MEAL DRYERS

CALIFORNIA

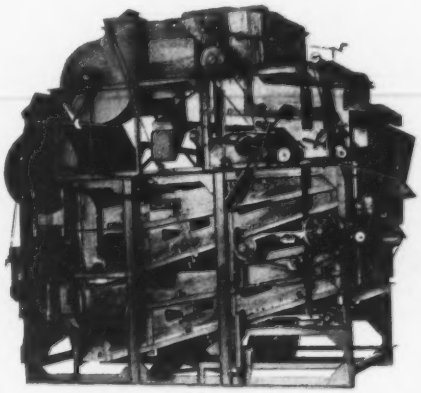
Los Angeles 90058 — ALLIS-CHALMERS CORP., Stansteel Products, 4926 S. Boyle Ave. Ph. 213-585-1336. Telex 67-47-37. Rotary conditioners, dryers, coolers and steam tube units.

San Francisco 94103 — CALIFORNIA PELLET MILL CO., 1800 Folsom St. Plant and sales dept.: 1114 E. Wabash Ave., Crawfordsville, IN 47933. Ph. 317-362-2600. Other plants at Freeport, IL; North Kansas City, MO; Hearne, TX; Amsterdam, Netherlands; Wexford, Ireland; and Singapore. Dry heat grain exploders.

ILLINOIS

Decatur 62526 — SUPERIOR WELDING CO., 900 E. Division St. Ph. 217-428-2138. Telex 25-0135. Rotary conditioners, dryers and coolers — new units and modification and repair of existing units.

CRIPPEN
SOYBEAN
SCALPERS
AND
CLEANERS



Crippen Cleaner Model MF-588 maximum capacity with precision performance. 3 independent air separations, plus divided flow produces highest quality finished product.

Tell us your cleaning requirements for beans, seed & grain. We'll help you meet them.

Crippen Mfg. Co., Inc.

850 West End St.
Alma, Michigan 48801

IOWA

Davenport 52808 — DAVENPORT MACHINE & FOUNDRY CO., 1628 W. Fourth St., P.O. Box 3339. Ph. 319-322-6201. Telex 468466. Rotary meal dryers, meal coolers and soybean conditioners.

KENTUCKY

Louisville 40222 — AMERICAN DRYNAMICS, INC., P.O. Box 22588, Ph. 502-425-6716.

LOUISIANA

New Orleans 70177 — NADUSTCO INC., Claiborne, Poland, Derbigny and Kentucky Sts., P.O. Box 3445. Ph. 504-949-8373. Soybean meal cooling and conveying systems.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. Fluid-bed dryer cooler.

Minneapolis 55440 — CROWN IRON WORKS CO., 1229 Tyler St. NE, P.O. Box 1364. Ph. 612-781-3101. Desolventizer - Toaster - Dryer - Cooler (DTDC) or meal dryers, meal coolers and seed conditioners. Exclusive licenses for Heinz Schumacher in U.S. and Canada.

NORTH CAROLINA

Raleigh 27611 — AEROGLIDE CORP., P.O.Box Aeroglide, 7100 Hillsborough Rd. Ph. 919-851-2000. Plant also at Orlando, FL. Rotary and bed dryers, conditioners and coolers.

PENNSYLVANIA

Colmar 18915 — MATERIAL HANDLING SYSTEMS DIV., FMC Corp. Ph. 215-822-0581. Roto-Louvre, Fluid Bed, Roto-Fin, etc.

GERMANY

D-3500 Kassel — PONNDORF MASCHINENFABRIK GmbH P.O. Box 10 28 60. Ph. 0561-511 41. Telex 99 760. Tubular bundle dryers and coolers.

DUST CONTROL SYSTEMS, DUST COLLECTORS

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Decatur 62526 — BURDICK AERATION & ELECTRONICS CORP., P.O. Box 2207. Ph. 217-422-9000. Designers, manufacturers and installers of dust control systms and dust collectors.

Evanston 60204 — BURROWS DIV., Seedburo Equipment Co., 1316 Sherman Ave. Ph. 312-864-4175. Telex: 285 332.

INDIANA

Mishawaka 46544 — WHEELABRATOR-FRYE INC., Air Pollution Control Div., 600 Grant St. Pittsburgh, PA 15219. Ph. 412-288-7300. Materials Cleaning Systems, 400 S. Byrkit St., Mishawaka, IN 46544. Ph. 219-255-2141. Dust and fume collection equipment to ventilate various processing operations. Blast cleaning equipment for maintenance and reconditioning.

IOWA

Boone 50036 — GEORGE A. ROLFES CO. INC., P.O. Box 458. Ph. 515-432-3300. TWX 910-520-2431. Design, manufacture and install complete HSC Jet Bag Filter Dust Control Systems.

LOUISIANA

New Orleans 70177 — NADUSTCO INC., Claiborne, Poland, Derbigny and Kentucky Sts., P.O. Box 3445. Ph. 504-949-8373.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. Cloth filters with low pressure jets cleaning system.

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Dust filters and systems for soybean processing plants and DayVac dryer filters.

MISSOURI

Kansas City 64108 — H. R. WILLIAMS MILL SUPPLY, 208 W. 19th. Ph. 816-471-1511. Filter bags and dust tubes.

NEW JERSEY

Summit 07901 — MIKROPUL CORP., 84 Chatham Rd. Ph. 201-273-6360. Industrial dust and air pollution control systems.

NEW YORK

Long Island City 11101 — WEST CHEMICAL PRODUCTS INC., 42-16 West St. Telex 122-77.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411. Cyclone collectors, dust and product collectors and multi-tube filter dust collectors.

DUST PELLETIZING

WISCONSIN

Green Bay 54301 — FEECO INTERNATIONAL INC., 3913 Algoma Rd. Ph. 414-468-1000. Telex 263456.

ELEVATOR BUCKETS

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Evanston 60204 — BURROWS DIV. Seedburo Equipment Co., 1316 Sherman Ave. Ph. 312-864-4175. Telex: 285 332. Bag closers and trucks.

Milan 61264 — K. I. WILLIS CORP. Ph. 309-787-4678. Elevator buckets, bolts and washers.

INDIANA

Hammond 46320 — SCREW CONVEYOR CORP., 757 Hoffman St. Ph. 219-931-1450. Elevator buckets (Nu-Hy, Winona, Salem, Plastic, Continuous) and elevator bolts.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

SOUTH CAROLINA

Greenville 29615 — ENGINEERED SYSTEMS OPERATIONS, JEFFREY MFG. DIV., Dresser Industries, 750 Executive center Dr. Ph. 803-288-7324. Telex 805-105. Elevator buckets and complete systems.

PENNSYLVANIA

Homer City 15748 — MATERIAL HANDLING EQUIPMENT DIV., FMC Corp. Ph. 412-479-8011. All types including the HS high-speed elevator buckets.

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO., INC. Ph. 717-546-8211. Telex: 841 411.

TEXAS

Fort Worth 76101 — FORT WORTH STEEL AND MACHINERY DIV., Houdaille Industries, Inc., 3600 McCart, P.O. Box 1038. Ph. 817-924-4255

BELGIUM

Roeselare — DAMMAN-CROES S.A., 55 Rue d' Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

FANS

INDIANA

Indianapolis 46203 — FARM FANS INC., 5900 Elmwood Ave. Ph. 317-787-6341. Aeration fans.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

LOUISIANA

New Orleans 70177 — NADUSTCO INC., Claiborne, Poland, Derbigny and Kentucky Sts., P.O. Box 3445. Ph. 504-949-8373. Industrial fans.

MISSISSIPPI

Greenville 38701 — REED-JOSEPH CO., Hwy. 1 N. Ph. 601-335-2341. Subsidiary of International Systems & Controls Corp. Soybean drying fans.

PENNSYLVANIA

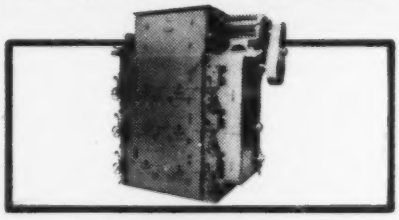
Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411.

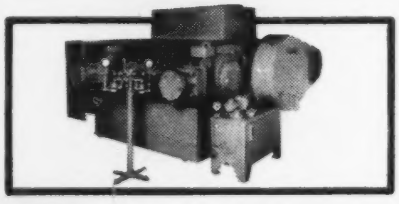
FARM EQUIPMENT

ARKANSAS

Pine Bluff 71611 — DICKEY MACHINE WORKS, P.O. Box 5610. Plant at Hwy. 79 N. Farm equipment manufacturer. Dickey fenders and cultivating equipment and parabolic chisel plows and subsoilers.

Two ways to increase oil extraction percentages





1. 10 x 42 Cracking Mill

The Roskamp-Langhurst Cracking Mill offers consistently higher conversion through uniform particle size reduction and lower fines. Langhurst combines massive frame construction with simple controls, precise cracking capability and big capacity - three-pair high mill is rated at 300 tons per day, two-pair high at 240 tons per day. Change six rolls in three to four hours complete. Built in hoist lifts rolls to and from dolly on floor.

Optionally available with vibratory or rotary feeder.

2. 28 x 52 Flaking Mill

The rugged, dependable Roskamp-Langhurst Flaking Mill provides maximum throughput in a given floor space. Roll bearings and journals are mated to a massive five-ton frame, heaviest in the industry, assuring consistent uniformity of flake thickness. Large diameter rolls, controlled hydraulically, offer more capacity, eliminate build-up in the nip by pulling whole beans through.

Vibratory or rotary feeder are optionally available for this big capacity, big profit mill.

Roskamp Mfg., Inc.

624 Grand Blvd., Cedar Falls, Iowa 50613 Phone: 319/266-1792

ILLINOIS

Auburn 62615 — DICKEY-john CORP., P.O. Box 10. Ph. 217-438-3371. Planter monitors, combine monitors, grain loss monitors, tractor performance monitors, moisture testers, spray controls.

Chicago 60611 — INTERNATIONAL HARVESTER CO., 401 N. Michigan Ave. Ph. 312-836-2000. Telex 253547.

Gibson City 60936 — M & W GEAR CO., Rt. 47 S. Ph. 217-784-4261. Manufactures automatic header control for self-propelled combines.

Harvard 60033 — HOWARD ROTAVATOR CO. INC., P.O. Box 100. Ph. 815-943-6424. Howard Rotavators — rotary tillage equipment for primary tillage and seedbed preparation. Howard Rotaspike — for secondary tillage and seedbed preparation. Howard V Chisels —chisel plow equipment for primary tillage.

Mendota 61342 — HART-CARTER CO., 1501 First Ave. Ph. 815-539-9371. TWX 9106423082. Combination bat and tine pickup reels for combines and floating cutterbars.

Moline 61265 — JOHN DEERE, John Deere Rd. Ph. 309-752-8000. Tractors, machines and implements for preparing seedbed; for distributing herbicides, insecticides; for planting, fertilizing, cultivating and harvesting soybeans.

Plainfield 60544 — PETERSON MFG. CO. INC., 700 W. 143rd St. Ph. 815-436-9201. Wheel equipment for farm tractors and farm machinery.

INDIANA

Lebanon 46052 — SMITH FARMS, P.O. Box 407, Rt. 2. Ph. 317-482-0062. Manufacturer of 12, 24, and 36-row bean planters that fold quickly and easily.

IOWA

Clear Lake 50428 — BEST-WAY INC., 1315 S. Eighth St. Ph. 515-357-6155. Planter transports, liquid planter units and planter attachments for John Deere planters.

Des Moines 50315 — MASSEY-FERGUSON INC., 1901 Bell Ave. Ph. 515-247-2011. Farm machinery manufacturer — combines, tractors, planters, plows, disks and cultivators.

Sac City 55083 — NOBLE DIV. — ROYAL INDUSTRIES, 16th St. Ph. 712-662-4731. Applicators for granular herbicides and insecticides. Seedbed preparation equipment. Row crop cultivators for narrow row soybeans. Fall and spring primary tillage equipment. Mulcher attachments for disks, field cultivators and chisel plows.

KANSAS

Dodge City 67801 — SPEED KING MFG. CO. INC., P.O. Box 1438. Ph. 316-227-7106. Offices: P.O. Box 924, Newnan, GA 30264; 105 Blair, Normal, IL 61761; P.O. Box 323, Iowa City, IA 52240.

MINNESOTA

Glencoe 55336 — GLENCOE PLANT — Portable Elevator Div. Seedbed preparation equipment—Glencoe Chisel Plows, Glencoe Soil Savers, Glencoe Field Cultivators and Glencoe Row Crop Cultivators.

Mankato 56001 — YEAR-A-ROUND CAB CORP., P.O. Box 2075. Ph. 507-625-9381. Manufacturer of farm tractor cabs and miscellaneous ag products. Floating cutterbars, field cultivators, earth busters, air conditioners, harvest boxes.

Owatonna 55060 — GANDY CO., 528 Gandrud Rd. Ph. 507-451-5430. Telex 29-0777. Manufacturer of precision granular chemical applicators. Super and Junior models mount over each planter row to apply weed and soil-insect control. Ro-Wheels incorporate herbicides into top inch of soil. Broadcast granular chemical applicators (3, 4, 5, 7, 8, 10, 12, 14, 16-foot sizes) mount on almost any disk or tillage implement, on front of tractor or on 3-point hitch for broadcast application of any granular chemical. Pull-type models in 20, 24, 30, 36 and 48-foot sizes. Fertilizer spreaders, 20, 24, 30 or 42 inch plus 3, 4, 5, 6, 8, 10, 11, 12, 20, 30-foot sizes can also apply granular chemicals. Land-measuring wheels, foot and metric reading.

MISSISSIPPI

Yazoo City 39194 — SHANNON TRACTOR CO. INC., Hwy. 3 By-Pass, P.O. Box 808. Ph. 601-746-4063. Shannon Floating Postemerge Slides with or without fenders.

MISSOURI

Independence 64058 — LELY INDEPENDENCE MFG. INC., Rt. 1, P.O. Box 274. Ph. 816-796-6550. Telex 42-6264.

OHIO

Coldwater 44828 — AVCO NEW IDEA FARM EQUIPMENT DIV., Avco Corp., 420 S. First St. Ph 419-678-5311. Manufacturer of specialized farm equipment. Uni-system combine with 13, 15 or 20-foot crop-saving bean/grain platform.

PENNSYLVANIA

New Holland 17557 — SPERRY NEW HOLLAND, div. of Sperry Corp. Ph. 717-354-1274. Other plants at Fowler, CA; Grand Island and Lexington, NE; Belleville and New Holland, PA. Branches in Fresno, CA; Denver, CO; Joliet, IL; Lenexa, KS; St. Paul, MN; Charlotte, NC; Liverpool, NY; Columbus, OH; Portland, OR; Memphis, TN; and Arlington, TX. Self-propelled combines.

TEXAS

Plainview 79072 — LYNCH MFG. CO. INC., Olton Rt. Ph. 806-889-3344. Lynch soybean harvester.

WASHINGTON

Garfield 99130 — J.E. LOVE CO. Ph. 509-635-1321. Other plants at Windom, MN and New Albany, MS. Flexible floating cutterbar, pickup reel, header cushion and seed bed preparation tillage tools.

WISCONSIN

Milwaukee 53201 — ALLIS-CHALMERS CORP., Agricultural Equipment Div., P.O. Box 512. Ph. 414-475-2000. Plants: 627 S. Cottage, Indepedence, MO 64050; 1235 E. Wooley Rd., Oxnard, CA 93030; and

11 Pine Lake, La Porte, IN 46350. Gleaner combines, tractors, disk harrows, plows, planters and cultivators.

Racine 53404 — J I CASE CO., 700 State St. Ph. 414-636-6011. Plants at Rock Island, IL; Terre Haute, IN; Bettendorf and Burlington, IA; Wichita, KS; and Wausau and Winneconne, WI. Tractors.

CANADA

Brantford, Ont., N3T 5R7 — WHITE FARM EQUIPMENT CO., White Motor Corp., 148 Mohawk St. Office: 2625 Butterfield Rd., Oak Brook, IL 60521. Ph. 312-887-0110. Plants at 701 S. Chapin St., South Bend, IN 46621 and 300 Lauler St., Charles City, IA 50616. Innovators of exclusive Kwik-Cut soybean head; designed specifically for harvesting soybeans.

FERTILIZERS

CALIFORNIA

Brea 92621 — LEFFINGWELL CHEMICAL CO., division of Thomson-Hayward Chemical Co., 111 S. Berry St. Ph. 714-529-3973. Micronutrient and nutritional foliar sprays.

GEORGIA

Atlanta 30303 — USS AGRI-CHEMICALS, 233 Peachtree St. NE. Ph. 404-572-4000. Mailing address: P.O. Box 1685, Atlanta, GA 30301.

INDIANA

Indianapolis 46234 — TRAZCO INC., 1747 N. Country Club Rd. Ph. 317-271-3347.

IOWA

Des Moines 50305 — ECOLOGICAL PRODUCTS LTD., 1350 W. Market St., P.O. Box 1314 Ph. 515-282-6315. Trace mineral fertilizer, foliar spray and seed treatments.

MISSOURI

St. Louis 63166 — MONSANTO CO., 800 N. Lindbergh Blvd. Ph. 314-694-1000. Agricultural chemicals.

NEW YORK

New York 10022 — PHELPS DODGE REFINING CORP., subsidiary of Phelps Dodge Corp., 300 Park Ave. Ph. 212-940-6554. Telex: 147 244.

TENNESSEE

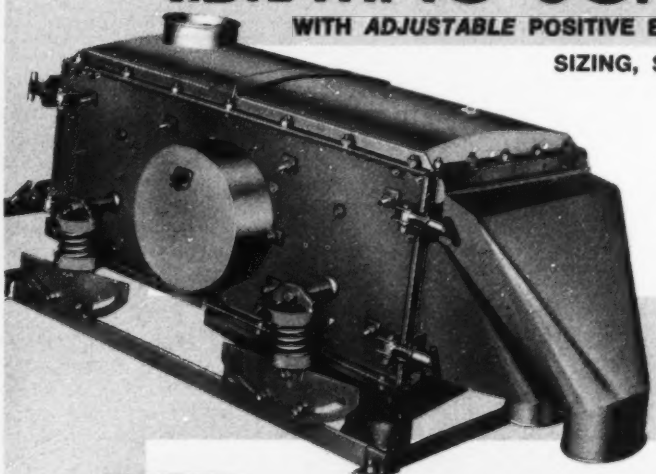
Memphis 38103 — AGRICULTURAL CHEMICALS GROUP, W.R. Grace & Co., 100 N. Main St. Ph. 901-522-2000. Plants operated at Bartow, Ft. Pierce and Tampa, FL; Henry, IL; New Albany, IN; Lansing, MI; Joplin, MO; Statesville and Wilmington, NC; Alliance, Columbus and Findlay, OH; Charleston, SC; Memphis, TN; Big Springs and Freeport, TX.

TEXAS

Houston 77001 — ALLIED CHEMICAL CORP., AGRICULTURAL DIV., P.O. Box 2120. Office: P.O. Box 1057R, Morristown, NJ 07960. Ph. 713-960-7928. Folian — an NPK-S foliar fertilizer for application to soybeans. NZN — a nitrogen zinc compound for foliar application to correct zinc deficiency.

VIBRATING SCREENS

WITH *ADJUSTABLE* POSITIVE ECCENTRIC ACTION FOR SIZING, SCALPING, DEWATERING



The PRATER Screen with adjustable positive eccentric action can be readily adjusted to suit the exact conditions of oil seed meal, hulls, etc.

More than 30 sizes in single and multiple deck design, in plain steel or stainless.

Ask for Bulletin 703

PRATER INDUSTRIES INC.

1515 South 55th Court • Chicago, Illinois 60650 • Phone 312/656-8500

Houston 77001 — OCCIDENTAL CHEMICAL CO., subsidiary of Hooker Chemical Corp., P.O. Box 1185. Ph. 713-840-7100.

VIRGINIA

Norfolk 23501 — BORDEN INC., Chemical Div./ Smith-Douglass, 5100 E. Virginia Beach Blvd., P.O. Box 419. Ph. 804-461-7200. Other plants at Smyrna, DE; Streator, IL; Russellville, KY; Holland, Riga and Saginaw, MI; Kinston and Wilmington, NC; and Sidney, OH. Manufacturer of fertilizer and farm chemicals

FUMIGANTS

GEORGIA

Atlanta 30303 — USS AGRI-CHEMICALS, 233 Peachtree St. NE. Ph. 404-272-4000. Mailing address: P.O. Box 1685, Atlanta, GA 30301.

NEW YORK

Long Island City 11101 — WEST CHEMICAL PRODUCTS INC., 42-16 West St. Telex 122-77.

FUNGICIDES, SEED PROTECTANTS

ARKANSAS

Little Rock 72203 — OLIN CORP., P.O. Box 991. Ph. 501-378-3727. Terraclor Super-X soil fungicide for hopper-box application at planting. Terra-Coat seed treatment for disease control.

CALIFORNIA

San Francisco 94105 — CHEVRON CHEMICAL CO., Agricultural Chemicals Div., 575 Market St. Ph. 415-894 4360. Regional offices located in Fresno, CA; Des Moines, IA; Perth Amboy, NJ; and Dallas, TX. Manufacturer and formulator of agricultural chemicals. Fungicides. Soybean seed protectants containing Captan.

CONNECTICUT

Naugatuck 06770 — UNIROYAL CHEMICAL, div. of Uniroyal Inc., Spencer St. Ph. 203-723-3000. Other offices: Fresno, CA; Lexington, KY; Raleigh, NC; Memphis, TN. Vitavax and Plantvax.

Westport 06880 — STAUFFER CHEMICAL CO., Agricultural Chemical Div. Plant at Omaha, NE. Other plants at N. Little Rock, AR; Tampa, FL; Dayton, NJ; and Houston, TX. Captan 25 and Captan Moly S.P.

DELAWARE

Wilmington 19898 — E. I. du PONT de NEMOURS & CO. INC. Ph. 302-774-2421. Biochemicals dept. "Benlate" Fungicide, "Demosan" 65-W Fungicide and "Arasan" seed protectants.

MISSOURI

Kansas City 64114 — KALO LABORATORIES, INC., 9233 Ward Parkway, Ph. 816-363-1800. Triple-Noctin® L — liquid soybean seed treatment, nitrogen fixing bacteria with molybdenum plus fungicide. Molynoctin® L — liquid soybean seed treatment, nitrogen fixing bacteria plus molybdenum. Stand-Up™ Plus — liquid soybean seed treatment, fungicide plus molybdenum. Stand-Up™ — liquid fungicide soybean seed treatment. Moly-T™ — dry soybean seed treatment, fungicide plus molybdenum. Triple-Noctin® II — dry soybean seed treatment, nitrogen fixing bacteria with fungicide and molybdenum. Molynoctin® — dry soybean seed treatment, nitrogen fixing bacteria and molybdenum. Hexide — liquid fungicide/bactericide for disease control on vegetables. Isobac 20® — liquid fungicide/bactericide for disease control of cotton seedlings and bollrot.

NEW YORK

Long Island City 11101 — WEST CHEMICAL PRODUCTS INC., 42-16 West St. Telex 122-77.

New York 10022 — PHELPS DODGE REFINING CORP., subsidiary of Phelps Dodge Corp., 300 Park Ave. Ph. 212-940-6554. Telex: 147-244

NORTH CAROLINA

Charlotte 28210 — MINERAL RESEARCH & DEVELOPMENT CORP., Suite 232, 4 Woodlawn Green. Ph. 704-525-2771. COPPER-COUNT-N, a liquid fungicide spray for control of bacterial blight and halo blight in soybeans.

OHIO

Cleveland 44114 — DIAMOND SHAMROCK CORP., Agricultural Chemicals Div., 1100 Superior Ave. Ph. 216-694-5031. Manufacturing and sales of agricultural chemical products. Bravo agricultural fungicides.

TEXAS

Dallas 75248 — GUSTAFSON, INC. 17400 Dallas North Parkway, Suite 220. Ph. 214-661-1334. Telex: 73-0957. Other offices: 6600 Washington Ave. S., Eden Prairie, MN. Manufacturer of seed treating equipment and automatic sampling systems, manufacturer and distributor of seed treating chemicals.

CANADA

Stoney Creek, Ontario L8G 3Z1 — CHIPMAN INC., Ph. 416-643-4123. Telex: 0618631. AGROX 2-Way and AGROX 3-Way Insecticide/Fungicide Seed Treatment for use on soybeans. Agrosol S Fungicide Treatment for use on soybeans.

GRAIN ANALYZERS

ILLINOIS

Auburn 62615 — DICKEY-JOHN CORP., P.O. Box 10. Ph. 217-438-3371. GAC II Grain Analysis Computer — measures moisture content, test weight, temperature of whole grain. GAC III Grain Analysis Computer — measures oil, protein and moisture content of ground grain.

MARYLAND

Silver Spring 20910 — NEOTEC INSTRUMENTS INC., 2431 Linden Lane. Ph. 301-589-5211. Other plants at Bethel, CT 06801 and Rockford, IL 61108. Grain Quality Analyzer: an automatic and precise instrument for measurement of soybean moisture, oil and protein.

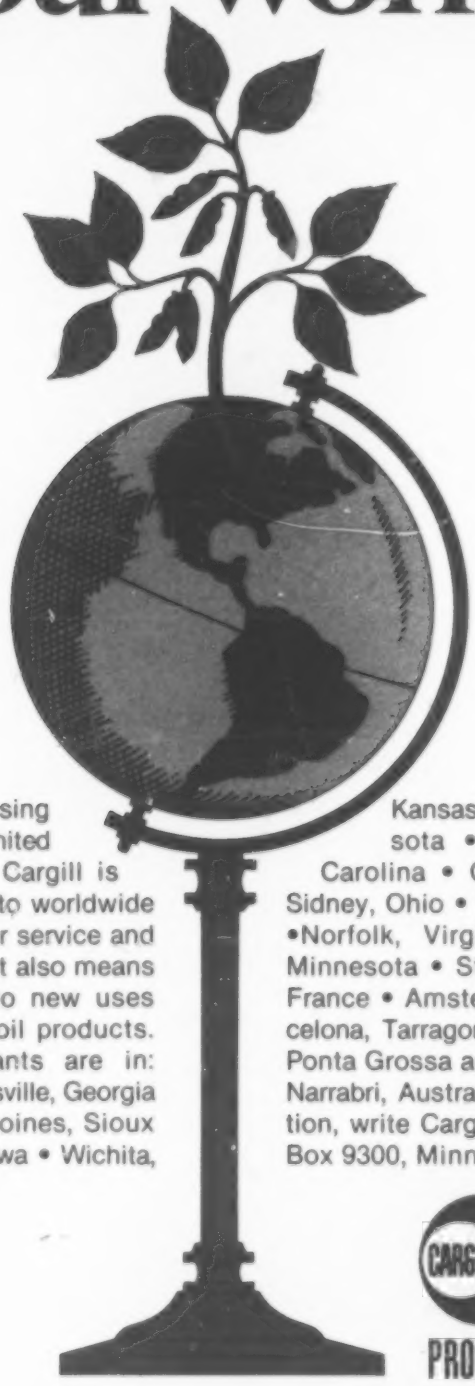
NEBRASKA

Omaha 68137 — INTERNATIONAL-STANLEY CORP., 13330 "I" St. Ph. 402-330-1500, 800-228-9257.

NEW YORK

Fishkill 12524 — FOSS AMERICA INC., P.O. Box 504. Ph. 914-226-2056. Rapid test method in-

Our world is your world



With 23 soybean processing plants throughout the United States and the world, Cargill is close to you and close to worldwide users. That means better service and better markets for you. It also means continued research into new uses for soybean meal and oil products. Cargill processing plants are in: Chicago, Illinois • Gainesville, Georgia • Cedar Rapids, Des Moines, Sioux City and Washington, Iowa • Wichita, Kansas • Port Cargill, Minnesota • Fayetteville, North Carolina • Osceola, Arkansas • Sidney, Ohio • Memphis, Tennessee •Norfolk, Virginia • Minneapolis, Minnesota • St. Nazaire and Brest, France • Amsterdam, Holland • Barcelona, Tarragona and Reus, Spain • Ponta Grossa and Mairinque, Brazil • Narrabri, Australia. For more information, write Cargill Processing Group, Box 9300, Minneapolis, MN 55440.

CARGILL®

PROCESSING GROUP

strumentation for protein, fat/oil, moisture measurements in grains, mixed feeds and oilseeds. New — rapid, automated macro-Kjeldahl.

Tarrytown 10591 — TECHNICON INDUSTRIAL SYSTEMS. Technicon Instruments Corp. Ph. 800-431-1970 ext. 2539. Technicon InfraAnalyzer; Infrared Reflectance Analyzer for rapid and precise measurement of protein, oil, moisture, fiber and ash in soybeans, forages, feeds, flours, grains, etc.

GRAIN AND MATERIALS HANDLING EQUIPMENT

ILLINOIS

Bloomington 61701 — PORTABLE ELEVATOR DIV., 920 E. Grove St. Ph. 309-829-1235. "Little Giant" crop handling equipment — elevators and Roll-A-Way conveyors.

Chicago 60650 — PRATER/BAUERMEISTER INC., 1515 S. 55th Ct. Ph. 312-656-8500. Telex 28-4312.

Danville 61832 — D.W. TYLER CO., 907 W. Fairchild St. Ph. 217-446-0228. Offices: 105 Husseman, Roanoke, IL. Ph. 309-923-2691. East Moline, IL. Ph. 309-755-2323.

Kewanee 61443 — RHINO SALES CORP., 620 Andrews Ave. Ph. 309-853-4461. Plant at La Moille, IL. Vibrators. Electric and hydraulic equipment.

Neponset 61345 — MARTIN ENGINEERING CO., U.S. Rt. 34. Ph. 309-594-2384, outside IL 1-800-447-5681. Vibrators, pneumatic blasting devices. Material flow trouble shooting.

INDIANA

Indianapolis 46203 — FARM FANS INC., 5900 Elmwood Ave. Ph. 317-787-6341. Grain distributors.

Cedar Rapids IA 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

IOWA

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431. All types of conveyors, bucket elevators, bins, tanks, spouting and structural steel fabrications.

KANSAS

Dodge City 67801 — SPEED KING MFG. CO. INC., P.O. Box 1438. Ph. 316-227-7106. Offices:P.O. Box 924, Newnan, GA 30264; 105 Blair, Normal, IL 61761; P.O. Box 323, Iowa City, IA 52240. Augers and screws, weigh hoppers, undercar conveyors, tubular conveyors, portable conveyors and augers and portable elevators.

MICHIGAN

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Bucket elevators in standard steel and super-duty steel construction. Vibrating pits, vibrating conveyors and belt conveyors.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC. P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. All mechanical and pneumatic handling equipment, including ship & barge loading and unloading systems.

The screening machine that **fights dust problems**

Highly-efficient fans aspirate airborne particles and collect them in an expansion chamber that is an integral part of the machine. The product is air-washed at both inlet and discharge points. Proved screen arrangements separate the product. Eureka Cleaners are an effective first staging in your pollution-control program...all-steel, customized construction to fit your application. As a bonus to your maintenance program, the proved oscillating Barbeau drive provides the answer. Capacities realistically rated. *Write for Catalog 101.*

No. 9 Super Cleaner

EUREKA

S. HOWES CO., INC.

2050 Miller St., Silver Creek, N.Y. 14136

Mixers • Packers • Granulators • Scourers • Brush Dusters

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Bulk materials handling systems. Storage bins, unloaders, pneumatic receivers, pneumatic conveying systems, airlock feeders, rotary feeder valves and diverter valves.

Minneapolis 55429 — CODEMA, INC., 5508 N. Douglas Dr. Ph. 612-535-4354. Telex: 290 328 cysl.

Minneapolis 55422 — LAKELAND ENGINEERING EQUIPMENT CO., 5735 Lindsay St. Ph. 612-544-0321. Other plants at 940 W. Eldorado, Decatur, IL; 412 Water St., Sioux City, IA; 3100 S. 44th, Kansas City, KS; and P.O. Box 27332, Omaha, NE. Distributor of several lines of grain and materials handling equipment.

NEBRASKA

Omaha 68137 — INTERNATIONAL-STANLEY CORP., 13330 "I" St. Ph. 402-330-1500, 800-228-9257.

NEW JERSEY

Maple Shade 08052 — STONHARD INC., 24 Park Ave. Ph. 609-779-7500. Manufacture lining for conveyors, bins, etc.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO., INC. Ph. 717-546-8211. Telex: 841 411. Mechanical and pneumatic conveying systems, airlock feeders, rotary vane feeder valves and stream splitters. Turnheads and diverter valves.

SOUTH CAROLINA

Belton 29627 — CONVEYOR COMPONENTS OPERATIONS, JEFFREY MFG. DIV., Dresser Industries Inc., P.O. Box 158. Ph. 803-338-7793. Conveyors.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. All types.

Memphis 38106 — MANUFACTURERS MAINTENANCE SERVICE, INC., 83 West E. H. Crump Blvd. Ph. 901-948-2564.

TEXAS

Dallas 75223 — TRIPLE/S DYNAMICS INC., 1031 S. Haskell Ave. Ph. 214-821-9143. Telex 730-023. Also operates Triple/S Dynamics Breckenridge Inc., Ivan Star Rt., Breckenridge, TX.

Fort Worth 76101 — FORT WORTH STEEL & MACHINERY DIV., Houdaille Industries Inc., P.O. Box 1038, 3600 McCart St. Ph. 817-924-4255. Telex 758-249.

WASHINGTON

Seattle 98109 — WESMAR LEVEL MONITOR DIV., 905 Dexter Ave. N., P.O. Box C19074. Ph.206-285-2420. Telex: 329 509.

WISCONSIN

Green Bay 54301 — FEECO INTERNATIONAL INC., 3913 Algoma Rd. Ph. 414-468-1000. Telex 263456.

BELGIUM

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

HOLLAND

Zevenbergen — MACHINEFABRIEK BRABANT D.v. OPSTAL B.V., Generaal Allenweg 2. Ph. 01680-25900. Manufacture pneumatic and mechanical conveying equipment.

GRAIN AND SEED CLEANING AND SEPARATING EQUIPMENT

CALIFORNIA

Los Angeles 90051 — SWECO INC., 6033 E. Bandini Blvd., P.O. Box 4151. Ph. 213-726-1177. Telex 67-4968. Manufactures SWECO Vibro-Energy Separator for sizing, scalping, gravity filtering, product recovery and effluent cleanup.

COLORADO

Rocky Ford 81067 — OLIVER MFG. CO. INC., P.O. Box 512. Ph. 303-254-6371. Gravity separators and stoners which clean particles by their weight.

CONNECTICUT

New Haven 06509 — ENTOLETER INC., subsidiary of American Mfg. Co. Inc., P.O. Box 1919. Ph. 203-787-3575. Telex 963479.

ILLINOIS

Chicago 60650 — PRATER INDUSTRIES INC., 1515 S. 55th Ct. Ph. 312-656-8500. Telex 28-4312. Vibrating screens.

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Danville 61832 — D. W. TYLER CO., 907 W. Fairchild St. Ph. 217-446-0228. Offices: 105 Husseman, Roanoke, IL, Ph. 309-923-2691 and E. Moline, IL, Ph. 309-755-2332.

Evanston 60204 — BURROWS DIV., Seedburo Equipment Co., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332.

INDIANA

Indianapolis 46203 — FARM FANS INC., 5900 Elmwood Ave. Ph. 317-787-6341.

IOWA

Mason City 50401 — DAVID MFG. CO., 1600 12th St. NE. Ph. 515-423-6182. Cleaning devices.

MICHIGAN

Alma 48801 — CRIPPEN MFG. CO. INC., 850 W. End St. Ph. 517-463-2119. Scalpers and cleaners for cleaning and grading soybeans for commercial and seeding quality.

Clean up on Soybeans

Cleaning and sifting soybeans is a ROTEX specialty . . . quickly and accurately through a unique combination of two separate and independent actions. (1) A horizontal gyratory motion that rapidly distributes and stratifies the product without violent agitation. This causes light trash and hulls to float to the top for easy removal by aspiration or discharge with other rejects. (2) A positive screen mesh cleaning system that prevents screen plugging, removes fines thoroughly. ☐ Use ROTEX for cleaning whole and cracked soybeans and for sifting soybean meal. For details, call your local ROTEX man, or write us for Application Bulletin 127.

ROTEX®
SCREENERS

ROTEX Model 722
Grain Cleaner

ADJUSTABLE HOOD FOR ASPIRATION OF MATERIAL FROM BOTTOM SCREEN SURFACE
ADJUSTABLE QUICK-RELEASE TOP COVER CLAMP ASSEMBLY
FEED INLET
COUNTERBALANCED DRIVE MECHANISM
OUTLET FOR SIDE DISCHARGE OF TAILINGS FROM TOP SCREEN SURFACE (TAILINGS AND FINES FROM BOTTOM SURFACE DISCHARGED BENEATH MACHINE)

ROTEX INC.
1236 KNOWLTON STREET, CINCINNATI, OHIO 45223 U.S.A.
See Yellow Pages "Screening & Sifting" or call (513) 541-1236

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Clipper soybean cleaners, high-capacity market cleaners, grain and seed cleaners, dust collectors and over 200 perforated steel and wire mesh screens.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. Complete line of seed cleaning and separating equipment.

Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Scalperators. Screening and aspirating equipment for high-capacity handling of soybeans as received and ahead of dryers and for refined cleaning of soybeans to be processed; also for the removal of hulls from cracked soybeans. Carter Precision Graders for width and thickness separating and the Uniflow for length separating and sizing. The Carter Millerator for dehulling of whole or cracked soybeans.

Thief River Falls 56701 — FORSBERGS INC., Airport Rd. Ph. 218-681-1927. TWX 910-561-2634. Screeners, destoners, gravity separators.

NEW YORK

Brocton 14716 — HUNTLEY MFG. CO., Ph.716-792-9134. Monitor high-capacity cleaning, scalping and grading equipment for grain, soybeans, corn and seed.

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Continental grain cleaners, scalpers and graders. Eureka super grain cleaners.

OHIO

Cincinnati 45223 — ROTEX INC., 1236 Knowlton St. Ph. 513-541-1236. Telex 21-4206. High-capacity Rotex screeners used widely in the soybean industry.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufactures screening machinery.

SOUTH DAKOTA

Salem 57058 — FETERL MFG. CO. Ph. 605-425-2206. Grain screening equipment.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Cleaners and scalpers.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

Memphis 38106 — MANUFACTURERS MAINTENANCE SERVICE, INC., 83 West E. H. Crump Blvd. Ph. 901-948-2564.

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC. 3951 Senator St. BAUERMEISTER flaking and cracking mills and Irie replacement flaking rolls of all types of roller mills. Complete systems for soybean cleaning and dehulling.

TEXAS

Dallas 75223 — TRIPLE/S DYNAMICS INC.,1031 S. Haskell Ave. Ph. 214-821-9143. Telex 730023. Also operates Triple/S Dynamics Breckenridge Inc., Ivan Star Rt., Breckenridge, TX. Specific gravity separators, stoners, highspeed vibrating screens, TexasShaker slow-speed shaking screens, precleaners and concentrators.

Fort Worth 76119 — HAYES & STOLZ INDUSTRIAL MFG. CO. INC., 3521 Hemphill St. Office: P.O. Box 11217. Ph. 817-926-3391. Rotary (drum) scalpers, vibro shakers, electric distributors (turn heads) and motorized diverter valves.

BELGIUM

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex: 81 548.

GERMANY

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40-39-11-96. Telex: 214489 or 213452. Shell separators for cracked soybeans and extracted soy meal to get high-protein products.

HOLLAND

Zevenbergen — MACHINEFABRIEK BRABANT D.v. OPSTAL B.V., Generaal Allenweg 2. Ph. 01680-25900. Cleaning equipment.

GRAIN GRADING AND MOISTURE TESTERS

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Des Plaines 60018 — RANK PRECISION INDUSTRIES INC., 411 E. Jarvis Ave. Ph. 312-297-7720. Telex 726441. Microsearch metal detector.

Evanston 60204 — BURROWS DIV., Seedburo Equipment Co. 1316 Sherman Ave. Ph. 312-864-4175. Telex: 285 332. Moisture testers.

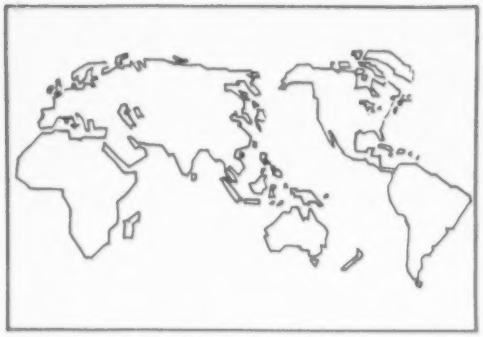
Auburn 62615 — DICKEY-john CORP., Box 10. Ph. 217-438-3371. Electronic-based measurement and control systems for agricultural and industrial products. Manufacturers of Process Automation Systems (PAS), including moisture monitors, automatic dryer controls, automatic tempering controls, automatic blending controls, bin level controls and monitors, Belt Slip Monitors, and near-infrared reflectance instruments.

MARYLAND

Savage 20863 — THE OLD MILL CO., Savage Industrial Center. Ph. 301-725-8181. Electronic counter (Model 850-2) and accessories.

MICHIGAN

Saginaw 48602 — FERRELL-ROSS, 1621 Wheeler St. Ph. 517-792-8723. Telex 227-421. Hand testing screens; Clipper office-size cleaner.



AMERICAN DRYNAMICS, INC.
INTERNATIONAL

THE
Process & Mechanical Oriented Service Organization

RELATING TO ROTARY AND FLUID BED TYPE DRYERS • COOLERS, CALCINERS AND OTHER SOLIDS PROCESSING EQUIPMENT

FOR THE SOLUTION TO YOUR PROBLEM CONTACT

ADI INTERNATIONAL
AMERICAN DRYNAMICS, INC.
INTERNATIONAL
P.O. Box 22588
LOUISVILLE, KY. 40222
PHONE (502) 425-6716

NEW JERSEY

Boonton 07005 — DELMHORST INSTRUMENT CO., 607 Cedar St. Ph. 201-334-2557. Moisture detectors.

Paterson 07513 — MOTOMCO INC., New Arden Chemical Corp., 267 Vreeland Ave. Ph. 201-345-6200. Model 919 Moisture Meter tests grain moisture determination in grains, rice, beans and granular commodities. Calibration charts.

NEW YORK

Fishkill 12524 — FOSS AMERICA INC., P.O. Box 504. Ph. 914-226-2056. Automated systems for moisture measurement and control, temperature measurements — remote read-out and control and instrumentation for rapid analysis of protein, fat/oil and moisture in grain, mixed feeds and oilseeds. Rapid, automated macro-Kjeldahl.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

TEXAS

Dallas 75223 — TRIPLE/S DYNAMICS INC., 1031 S. Haskell Ave. Ph. 214-821-9143. Telex 730-023. Also operates Triple/S Dynamics Breckenridge Inc. Ivan Star Rt., Breckenridge, TX. Manufacturing.

GRINDING AND MIXING EQUIPMENT

CONNECTICUT

New Haven 06509 — ENTOLETER INC., subsidiary of American Mfg. Co. Inc., P.O. Box 1919. Ph. 203-787-3575. Telex 963479.

GEORGIA

Atlanta 30318 — DAVIDSON-KENNEDY CO.,1090 Jefferson St. NW, P.O. Box 93406. Toasters, cracking and flaking rolls, soybean heaters, cookers, D.T.'s and hull packers.

ILLINOIS

Chicago 60623 — MODERN PROCESS EQUIPMENT INC., 3150 S. Kolin Ave. Ph. 312-254-3929. Manufacturer of roller mills and grinding rolls for all makes and models of roller mills, regrind and corrugate mill rolls.

Chicago 60650 — PRATER/BAUERMEISTER INC., 1515 S. 55th Ct. Ph. 312-656-8500. Telex 28-4312. Fine grinding machines and air classifiers for all soy products.

Chicago 60650 — PRATER INDUSTRIES INC., 1515 S. 55th Ct. Ph. 312-656-8500. Telex 28-4312. Hammermills, mixers.

INDIANA

Valparaiso 46383 — URSCHEL LABORATORIES INC., 2503 Calumet Rd. Ph. 219-464-4811. Telex: 258 337.

IOWA

Cedar Falls 50613 — ROSKAMP MFG. INC., 624

Grand Blvd. Ph. 319-266-1792. Telex 46-5653. Roskamp-Langhurst 28x52 300 T/day flaking mill and 10 × 42 cracking mills.

Neola 51559 — JENSEN MILLS. Ph. 712-485-2115. Self-sharpening and wearshaun hammermill hammers. Patented Snug-Lox Hammer pins and locks.

MASSACHUSETTS

Natick 01760 — ALPINE AMERICAN CORP., 5 Michigan Dr. Ph. 617-655-1123. Telex 94-84-50.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497, Ph. 612-545-1401. Telex: 29-0445. Complete line of seed preparation equipment.

Minneapolis 55427 — JACOBSON MACHINE WORKS INC., 2491 Nevada Ave. N. Ph. 612-544-8781. Telex 29-0772.

Minneapolis 55414 — TWIN CITY MACHINE CO. INC. 527 2nd Ave. SE. Ph. 612-378-2422. New rolls for cracking and flaking. Grinding and corrugating of rolls.

NEW JERSEY

Summit 07901 — PULVERIZING MACHINERY DIV., MikroPul Corp., 84 Chatham Rd. Ph. 201-273-6360. Grinders, pulverizers, air classifiers for particle size reduction.

NEW YORK

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Eureka granulators, hammer-mills scourers for dehulling and mixers.

OHIO

Springfield 45501 — C-E BAUER, a business unit of Combustion Engineering Inc. Ph. 513-390-3400. Laboratory mills, attrition mills, classifiers, pulverizers, crushers for seed cakes. Facilities for experimental projects.

OKLAHOMA

Oklahoma City 73126 —FERRELL-ROSS, P.O. Drawer 26468. Ph. 405-672-5501. Roller mills, crushing mills, grinding and flaking mills and sifters.

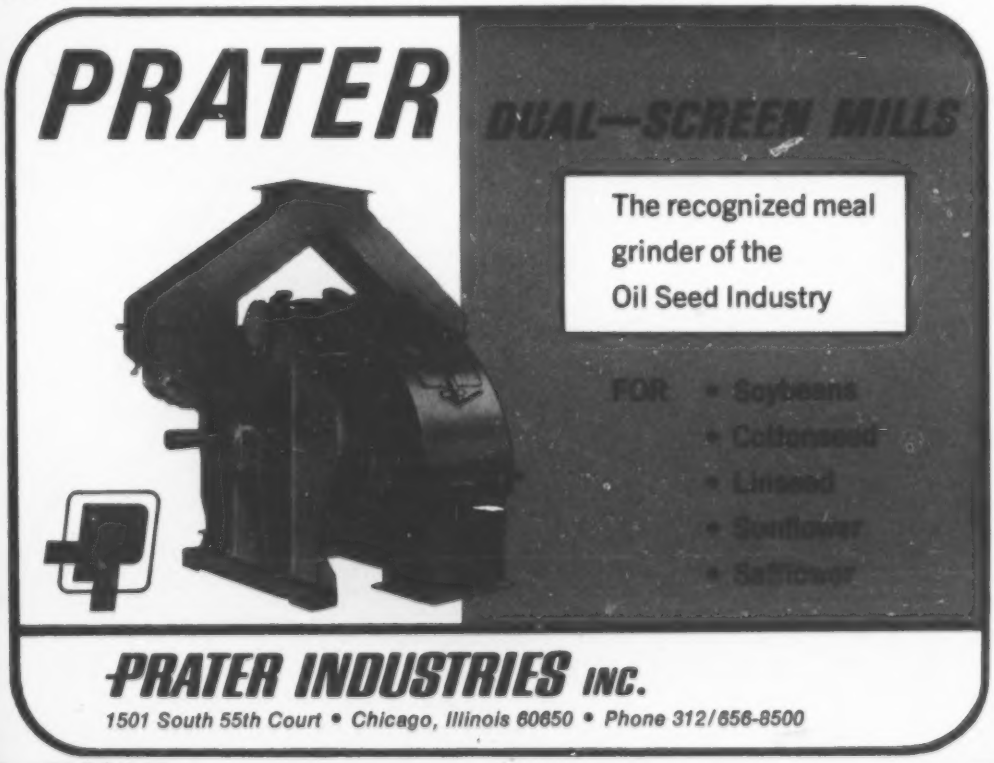
PENNSYLVANIA

Allentown 18106 — PRECISION ROLL GRINDERS INC., subsidiary of Fa. Hermann Berstorff Maschinenbau, Hanover, Germany. Ph. 215-395-6966. Telex 138-297. Office at Chapmans Rd., Chapmans, PA. Roll grinding, polishing, repair and manufacture.

Muncy 17756 — SPROUT WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex 841 411. Complete milling equipment. Roller mills, hammermills, attrition mills, cutters, crushers, impact mills, horizontal and vertical mixers, liquid addition mixers.

SOUTH CAROLINA

Woodruff 29388 — PROCESSING EQUIPMENT OPERATIONS, JEFFREY MFG. DIV., Dresser Industries Inc., P.O. Box 387. Ph. 803-476-7523. Hammermills (Swing or rigid hammers), crushers and pulverizers.



TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Hammermills and mixers.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Flaking mills, grinding and crushing mills.

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Soybean meal and hull grinding equipment.

TEXAS

Slaton 79364 — SIKES MACHINE SHOP, 2100 Industrial Dr., P.O. Box 370. Ph. 806-828-6568.

GERMANY

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40-39-11-96. Telex: 214489 or 213452. Cracking mills, flaking mills, mills for fine-grinding and sifting of full-flat or defatted soya products.

BELGIUM

Roeselare — DAMMAN-CROES S.A., 55 Rue d' Espagne. Ph. 051 20 43 43, 031 49 49 17.Telex 81 548.

HERBICIDES, INSECTICIDES AND PESTICIDES

CALIFORNIA

Los Angeles 90010 — UNITED STATES BORAX & CHEMICAL CORP., a member of the RTZ Group, 3075 Wilshire Blvd. Ph. 213-381-5311. Other offices: Memphis, TN. Cobex, Rydex.

San Diego 92108 — SANDOZ INC., Crop Protection. 480 Camino Del Rio S., Ph. 714-298-4343. THURICIDE® biological insecticide liquid and wettable powder formulation. Registered for control of velvetbean caterpillar, soybean looper, green cloverworm and cabbage looper on soybeans.

San Francisco 94105 — CHEVRON CHEMICAL CO., Agricultural Chemicals Div., 575 Market St. Ph. 415-894-2958. Regional offices located in Fresno, CA; Des Moines, IA; Perth Amboy, NJ; and Dallas, TX. Manufacturer and formulator of agricultural chemicals. Paraquat herbicide and ORTHENE insecticide.

San Ramon 94583 — SHELL CHEMICAL CO., Agricultural Chemicals, 2401 Crow Canyon Rd. Ph. 415-837-1531. NEMAGON 121.1 E.C. soil fumigant and NEMAGON 121.C soil fumigant.

CONNECTICUT

Naugatuck 06770 — UNIROYAL CHEMICAL, div. of Uniroyal Inc., 32 Spencer St. Ph. 203-723-3000. Other offices: Fresno, CA; Lexington, KY; Raleigh, NC; and Memphis, TN. Dyanap and Alanap herbicides; Omite Comite and Omite 6E miticides.

Westport 06880 — STAUFFER CHEMICAL CO., Agricultural Chemical Div. Plant at Omaha, NE. Other plants at N. Little Rock, AR; Tampa, FL; Dayton, NJ and Houston, TX. Vernam herbicide.

DELAWARE

Wilmington 19803 — BOOTS HERCULES AGRO-CHEMICALS CO., Concord Plaza, Box 7489, Ph. 302-575-7850. District offices: Fresno, CA; Atlanta, GA; Kansas City, MO and Greenville, MS. Tosaphene insecticide.

Wilmington 19898 — E. I. Du PONT de NEMOURS & CO. INC. Ph. 302-774-2421. Biochemicals Dept. Lorox weed killer, "Lexone" weed killers, "Lannate" and Marlate insecticides.

GEORGIA

Atlanta 30303 — USS AGRI-CHEMICALS, 233 Peachtree St. NE. Ph. 404-572-4000. Mailing address: P.O. Box 1685, Atlanta, GA 30301.

INDIANA

Indianapolis 46206 — ELANCO PRODUCTS CO., div of Eli Lilly and Co., P.O. Box 1750. Ph. 317-261-3623. Treflan — preemergence herbicide (selective) for control of annual grasses and broadleaf weeds in soybeans. Surflan-preemergence herbicide for control of annual grasses and broadleaf weeds in soybeans.

KANSAS

Kansas City 66110 — THOMPSON-HAYWARD CHEMICAL CO., subsidiary of North American Phillips Co., 5200 Speaker Rd. Ph. 913-321-3131. Manufacturer and disttor of industrial and agricultural chemicals including KLEAN-KROP and KLEAN-UP herbicides. Fifty-five chemical distribution centers in the U.S.

MISSOURI

Kansas City 64120 — AGRICULTURAL CHEMICALS DIV., MOBAY CHEMICAL CORP., P.O. Box 4913. Ph. 816-242-2000. Regional offices located in Fresno, CA; Hapeville, GA; Omaha, NE; Cherry Hill, NJ; Kalamazoo, MI; Portland, OR; Memphis, TN; and Dallas, TX. Manufacturer of agricultural chemicals.

St. Louis 63166 — MONSANTO CO., 800 N. Lindbergh Blvd. Ph. 314-694-1000. Agricultural chemicals. Lasso herbicide, Lasso plus Lorox, Lasso plus Lexone, Lasso plus Sencor, Lasso plus Dyanap, Lasso plus Premerge, and Lasso plus Amiben tank mix combinations for surface applied preemergence grass and weed control; Lasso herbicide, Lasso plus Lexone and Lasso plus Sencor tank mix combinations for preplant incorporated grass and weed control; Lasso plus Lorox plus Paraquat CL tank mix and Lasso followed by Basagran for surface applied pre-emergence and postemergence grass and weed control; Roundup herbicide; Roundup plus Lasso plus Lorox, Roundup plus Lasso plus Sencor or Lexone tank mix combinations for pre-plant, nonselective, broad spectrum control of emerged perennial and annual weeds; Roundup herbicide applied through recirculating sprayers, shielded applicators and wiper (roller, wick) applicators.

NEW JERSEY

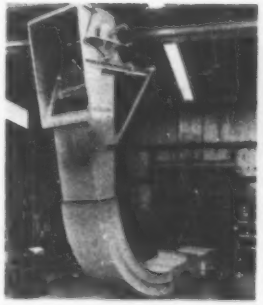
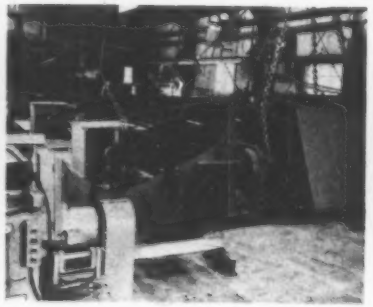
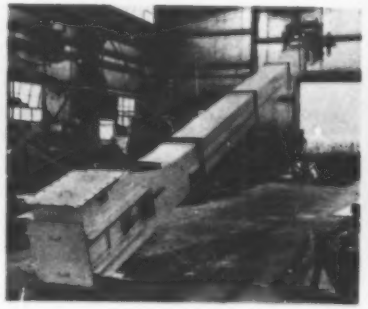
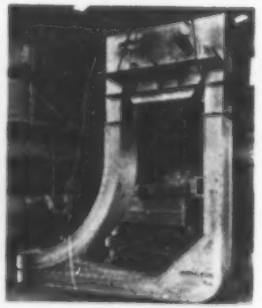
Monmouth Junction 08852 — RHONE-POULENC INC., AGRICULTURAL DIV., P.O. Box 125. Ph. 201-297-0100. Also at Suite 490, 340 Interstate Hwy., Atlanta, GA 30339; 1111 S. Alpine Rd., Suite 604,

DIVINALATORS

EN MASSE CONVEYORS

CONVEYOR, FEEDER, ELEVATOR, OR COMBINATION
POSITIVE — MANY PATHS
VAPOR, LIQUID, OR DUST TIGHT

MODIFIED TO SUIT ANY INSTALLATION, FIELD PROVEN OVER 25 YEARS

DIVINE ENGINEERING, INC.

5440 6th St. SW, P. O. Box 1345 CEDAR RAPIDS, IOWA 52406 319—365-0564

Jared S. Hills

Rockford, IL 61108; Suite 431, 1935 W. Country Rd. B-2, St. Paul, MN 55113; 1100 W. Shaw Ave.; Fresno, CA 93711. Butoxone (2, 4-DB) selective weed killer for control of cocklebur and other weeds in soybeans.

Parsippany 07054 — BASF WYANDOTTE CORP., subsidiary of BASF AG, West Germany, 100 Cherry Hill Rd. Ph. 201-263-0200. Manufacturer of Basagran®, Basalin® herbicides, Pix® plant regulator and other pesticide chemicals.

NEW YORK

Long Island City 11101 — WEST CHEMICAL PRODUCTS INC., 42-16 West St. Telex 122-77. Also rodenticides.

NORTH CAROLINA

Greensboro 27409 — CIBA-GEIGY CORP., Agricultural Div., P.O. Box 11422. Ph. 919-292-7100. Herbicides — Tenoran 50WP, Tolban 4E.

OHIO

Cleveland 44114 — DIAMOND SHAMROCK CORP., Agricultural Chemicals Div., 1100 Superior Ave. Ph. 216-694-5031. Manufacturing and sales of agricultural chemical products — Dacthal herbicide; Dacamine, Daconate and Bueno herbicides.

PENNSYLVANIA

Ambler 19002 — AMCHEM PRODUCTS INC. Ph. 215-628-1000. Also operates plants at Fremont, CA; Clinton, IA; and St. Joseph, MO. Amiben preemergence herbicide for both broadleaf weeds and grasses in soybeans. Butyrac 200 — a specific postemergence control for cocklebur and annual morningglory in soybeans.

Pittsburgh 15222 — PPG INDUSTRIES INC., Biochemical Business Unit, One Gateway Center. Ph. 412-434-3131. Furloe — selective herbicide for effective weed control in soybeans; currently registered for tank mixing with Treflan®, Vernam® and Lasso®, Tolban® for broad spectrum weed control in soybeans.

TEXAS

Houston 77012 — OCCIDENTAL CHEMICAL CO., subsidiary of Hooker Chemical Corp., P.O. Box 1185. Ph. 713-840-2769. Pesticides.

INOCULANTS

GEORGIA

Atlanta 30303 — USS AGRI-CHEMICALS, 233 Peachtree St. NE. Ph. 404-572-4000. Mailing address: P.O. Box 1685, Atlanta, GA 30301.

ILLINOIS

Princeton 61356 — NORTH AMERICAN PLANT BREEDERS, subsidiary of Olin Corp., Agricultural Products Div., P.O. Box 404. Ph. 815-875-6426. TWX 910-642-4192. Home office: P.O. Box 2955, 5201 Johnson Dr., Mission, KS 66205. Legume inoculants.

Urbana 61801 — THE URBANA LABORATORIES, P.O. Box 399. Ph. 217-367-3046. Urbana Humus Inoculator (109), for all legume seeds. Urbana Vitalive, Urbana Seed Prep, Urbana Moly-Mix (molybdenum) and Moly Soy-A-Live.

INDIANA

Indianapolis 46234 — TRAZCO INC., 1747 N. Country Club Rd. Ph. 317-271-3347.

IOWA

Des Moines 50305 — ECOLOGICAL PRODUCTS LTD., 1350 W. Market St., P.O. Box 1314. Ph. 515-282-6315. .

OHIO

Columbus 43212 — AGRICULTURAL LABORATORIES INC. Ph. 614-488-9721. Dormal brand inoculant, Legume-Aid, frozen Legume-Aid, Direct Soil Inoculants and special labels.

TENNESSEE

Memphis 38103 — AGRICULTURAL CHEMICALS GROUP, W.R. Grace & Co., 100 N. Main St. Ph. 901-522-2000. Sales offices: Ft. Pierce, FL; Peoria, IL; New Albany, IN; Wilmington, NC; and Tulsa, OK.

Memphis 38137 — SETRE INC., 5100 Poplar, Suite 3200, Ph. 901-761-0050.

WISCONSIN

Milwaukee 53209 — THE NITRAGIN CO., INC., 3101 W. Custer Ave. Ph. 414-462-7600. Nitragin seed inoculation. Nitra-Coat protective agent and Nitra-Mo Molybdenum formulation. New, Nitragin Soil Implant inoculant for soybeans and peanuts. New Pro-treat 3 soybean seed treatment. Pelinoc for small seeded legumes.

LABORATORY EQUIPMENT

COLORADO

Boulder 80301 — TECATOR, INC., 2200 Central Ave. Ph. 303-443-9245. Telex 45-4309. Equipment for rapidly testing protein, fat and fiber content of soybeans, soybean meal and other products. Rafatec fat extractor for rapid fat analysis. Kjeltec I, II, and III rapid kjedlahl analysers. Block digestors — DS-6, 12, 20, and 40 unit for simultaneous digestion of up to 40 samples. Kjëltec DD for protein in less than 8 minutes. Fiber analyzer for crude fiber.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. Lab sifters and lab mills.

Minneapolis 55427 — JACOBSON MACHINE WORKS INC., 2491 Nevada Ave. N. Ph. 612-544-8781. Telex 29-0772.

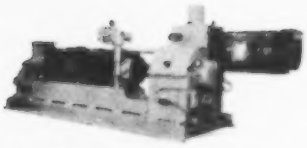
MATERIAL LEVEL INDICATORS

IOWA

Cedar Rapids — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

MICHIGAN

Port Huron 48060 — BINDICATOR CO., 1915 Dove, P.O. Box 9. Ph. 313-987-2700. Telex 810-231-5261. Electro mechanical, ultrasonic, conductive and radio frequency (capacitance) products for liquid and dry bulk material level indication and flow control. Shaft motion indicators.



350 T/DAY Flaxseed Prepress,
600 H.P., 16"/14" Diam.

Desolventizer Toaster—
French Patented Design

250 H.P.—10¼" Diam.
—2 speed Screw Press

FRENCH

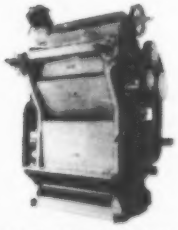
U.S.A.

Oil Seed Processing Equipment

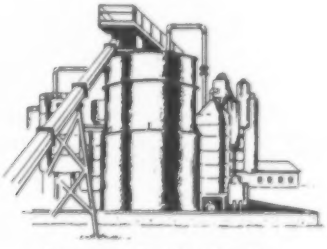
"Made by the people who specialize in extraction"

The French Oil Mill Machinery Co., established in 1900, is unique within the oil milling industry as being one of the few companies with the ability to design, engineer, manufacture, install and service the equipment it sells. Dedication to the continuous improvement of equipment and processes to meet oil milling industry's needs has made French the leading supplier of Screw Presses—Solvent Extraction Systems — Cookers — Cooker-Dryers and other preparatory and processing equipment. The durability of equipment, the ingenuity of engineering, the largest number of installations indicates the continuing tradition of French Oil will be here for many years to come to service the needs of the oil milling industry. If you are looking for ways to reduce processing costs and improve your product, check with our engineering staff today. There is no obligation.

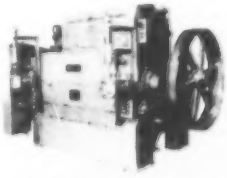
F0113R



200 T/DAY 5-high with
6th offset rolls
(Shown without guard)



Stationary Basket Extractor
from 50 to 3000 tons
per day capacity



Single stand flaking mill
300 tons
per day capacity
(Shown without guard)

THE FRENCH OIL MILL MACHINERY CO. • PIQUA, OHIO 45356

TENNESSEE

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683.

WASHINGTON

Seattle 98109 — WESMAR LEVEL MONITOR DIV., 905 Dexter Ave. N., P.O. Box C19074. Ph. 206-285-2420. Telex: 329 509. Industrial ultrasonic level monitoring equipment — noncontact.

MISCELLANEOUS

CALIFORNIA

Bodega 94922 — BEAN MACHINES, P.O. Box 76, Ph. 707-876-3341. The main source in N. America of tofu and soymilk production equipment.

CONNECTICUT

New Haven 06505 — SETON NAME PLATE CORP., 1728 Blvd. Ph. 203-772-2520. Manufacturer of pressure-sensitive signs, decals, badges and plaques.

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Evanston 60204 — BURROWS DIV. Seedburo Equipment Co., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332. Germinators.

Lindenwood 61049 — AUTOMATED SERVO CONTROL INC., P. O. Box 127. Ground oriented controls for fertilizer.

INDIANA

Valparaiso 46383 — URSCHEL LABORATORIES, INC., 2503 Calumet Rd. Ph. 219-464-4811. Telex: 258 337.

IOWA

Des Moines 50310 — AGT INC., 2713 Harding Rd. Ph. 515-274-3651. Electro magnetic seed energizer to improve germination and yields.

KANSAS

Salina 76401 — THE WYATT MFG. CO. INC., P.O. Box 1227. Ph. 913-825-5441. Telex 417-330. Grain cleaner.

MARYLAND

Savage 20863 — THE OLD MILL CO., Savage Industrial Center. Ph. 301-725-8181. Soybean inspection unit.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC.,P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445. Cracking, flaking and dehulling equipment.

Minneapolis 55422 — LAKELAND ENGINEERING EQUIPMENT CO., 5735 Lindsay St. Ph. 612-544-0321. Other plants at 940 W. Eldorado, Decatur, IL; 412 Water St., Sioux City, IA; 3100 S. 44th, Kansas City, KS; and P.O. Box 27332, Omaha, NE. Electrical switchgear, motor control centers and electrical control systems.

Minneapolis 55429 — SURECO, 5211 Lakeland Ave. N. Ph. 612-535-3610. Turbo precleaners separates and expels airborne material from engine air.

MISSOURI

Kansas City 64120 — AGRICULTURAL CHEMICALS DIV., MOBAY CHEMICAL CORP., P.O. Box 4913. Ph. 816-242-2000. Regional offices located in Fresno, CA; Hapeville, GA; Omaha, NE; Cherry Hill, NJ; Kalamazoo, MI; Portland, OR; Memphis, TN; and Dallas, TX. Manufacturer of agricultural chemicals.

Kansas City 64114 — KALO LABORATORIES, INC., 9233 Ward Parkway, Ph. 816-363-1800. Bio-88 — spreader activator. Bio-Film — spreader sticker. Buffer-X — buffering pH agent. Compex-compatibility agent. Defoamer — foam reducing aerosol or liquid. Extend — nitrogen regulator. Fcmark — foam marking agent. Regulaid — spreader activator. Tronic — spreader activator.

NEW JERSEY

Paterson 07513 — MOTOMCO INC., New Arden Chemical Corp., 267 Vreeland Ave. Ph. 201-345-6200. Anticoagulant rodenticide concentrates.

OHIO

Cleveland 44141 — THE METALCRETE MFG. CO., 10330 Brecksville Rd. Ph. 216-526-5600. Manufacturer of specialized building maintenance and construction materials. Anchoring and grouting cements, floor repairing and surfacing materials, roof and masonry waterproofings, pavement patching and sealing compounds, antiskid treatments, cleaners and degreasers.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Magnets, electric motors, gear reducers and spouting.

GERMANY

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40-39-11-96. Telex: 214489 or 213452. Cracking mills, flaking mills.

ON-FARM PROCESSING EQUIPMENT

INDIANA

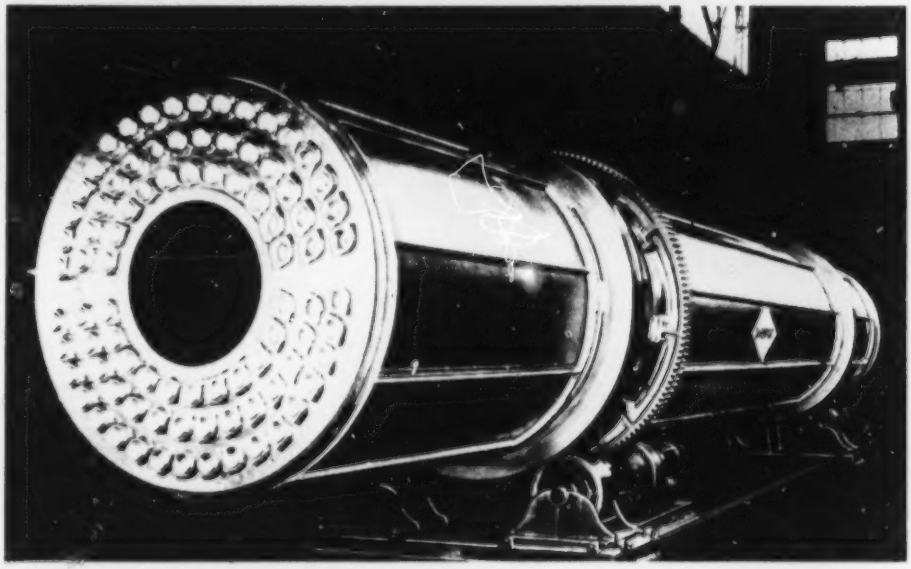
Bluffton 46714 — MIX-MILL INC., 1248 S. Main. Ph. 219-824-3400. Telex 23-2450. Roast-A-Tron and Rota-Pulse to heat-treat whole soybeans and other grains for feed use.

IOWA

Des Moines 50322 — INSTA-PRO, Div. of Triple "F", Inc. 10301 Dennis Dr. Ph. 515-276-4524. Telex 478375. Electrically driven INSTA-PRO extruder for whole soybean processing on the farm or local feed mill.

NEW YORK

New Hartford 13413 — THE PARTLOW CORP., subsidiary of Chicago Pneumatic Tool Co. Ph. 315-797-2222. Jo-Fran Port-A-Roaster and others.



The Standard for the Industry

Soybeans are an ever-increasing agricultural crop in the U.S., as well as the rest of the world. Efficient and economical processing is vital to the industry and Davenport equipment has met those challenges for many years. Davenport consistently provides the high quality that results in consistent throughput, minimal maintenance and lower downtime. Daveport's reputation for long lived equipment comes from proper design engineering, careful attention to the customers' requirements, and use of the most durable components in the industry.

No newcomer to the field can match Davenport's proven performance and experience in the soybean field. Davenport is the standard for the industry and the benchmark to which others are compared.

When it comes to solvent extraction, conditioning, drying and cooling of soybean products, Davenport is the answer.

DAVENPORT

DAVENPORT

MACHINE AND FOUNDRY COMPANY
A Division of Middle States Corporation

Davenport, Iowa 52804
319/322-6201

DAVENPORT MACHINE AND FOUNDRY CO.

1628-66 WEST FOURTH STREET P. O. BOX 3339
DAVENPORT, IOWA 52808

WISHES TO ANNOUNCE THAT ALL TYPES OF REPAIR, OVERHAUL ASSISTANCE AND SUPERVISION ARE AVAILABLE FOR THE FOLLOWING TYPE OF EQUIPMENT - (ANY MANUFACTURER)

- Steam Tube Dryers
- Warm Air Dryer
- Water Tube Coolers
- Kilns (all types)
- Direct Fired Dryers
- Air Coolers
- Calciners
- Baking Drums

THESE SERVICES ARE AVAILABLE:

- Installation and alignment supervision
- Overhaul assistance
- Trouble Shooting
- Repair Parts
- Process Consulting

For further information fill in and return:

Name of Company_____ Location_____

Type of Equipment_____ Material Processed_____

Name_____ Title_____

Mailing Address_____

_____

_____

Phone No. ( ) _____

PELLETING EQUIPMENT

CALIFORNIA

San Francisco 94103 — CALIFORNIA PELLET MILL CO., 1800 Folsom St. Plant and sales dept. 1114 E. Wabash Ave., Crawfordsville, IN 47933. Ph. 317-362-2600. Other plants at Freeport, IL; North Kansas City, MO; Hearne, TX; Amsterdam, Netherlands; Wexford, Ireland; and Singapore. Pellet mills, coolers, crumblers, feed cleaners and dry heat grain exploders.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411. Vertical ring die machines. Horizontal and vertical coolers. Crumble rolls, cleaning and grading shoes.

POWER TRANSMISSION EQUIPMENT

ILLINOIS

Warrensburg 62573 — UNION IRON CO., P.O. Box 248. Ph. 217-672-3532.

INDIANA

Mishawaka 46544 — DODGE DIV., Reliance Electric Co. Ph. 219-256-1551. Flexidyne dry-fluid drives and couplings; Dodge Paraflex flexible cushion couplings; Dyna-V V-belt drives; Dyna-Sync synchronous belt drives; Taper-Lock bushed V-belt sheaves, sprockets, couplings (flexible, rigid, gear and chain) and steel conveyor pulleys; Torque-Arm speed reducers; screw conveyor drives; Hydroil — hydraulically powered speed reducers; shaft collars; takeups; Dodge roller bearing pillow blocks, Spher-Align spherical roller bearing pillow blocks; SC and SCM ball bearing pillow blocks; steel conveyor pulleys; roller chain; mechanical clutches and Torque-Tamer torque controlling clutch.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

KENTUCKY

Maysville 41056 — BROWNING MANUFACTURING DIV., EMERSON ELECTRIC CO., P.O. Box 687. Ph. 606-564-2011. Telex 21-8498.

MINNESOTA

Minneapolis 55422 — LAKELAND ENGINEERING EQUIPMENT CO., 5735 Lindsay St. Ph. 612-544-0321. Other plants at 940 W. Eldorado, Decatur, IL; 412 Water St., Sioux City, IA; 3100 S. 44th, Kansas City, KS; and P.O. Box 27332, Omaha, NE. Distributor of power transmission equipment.

OHIO

Worthington 43085 — POWER TRANSMISSION DIV., Dresser Industries Inc., 400 W. Wilson Bridge Rd. Ph. 614-421-3123.

TENNESSEE

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator, bearings, belts and chains.

TEXAS

Fort Worth 76101 — FORT WORTH STEEL & MACHINERY DIV., Houdaille Industries Inc., P.O. Box 1038, 3600 McCart St. Ph. 817-924-4255. Telex 758-249.

WISCONSIN

Milwaukee 53201 — THE FALK CORP., P.O. Box 492. Ph. 414-342-3131. Offices in all leading cities. Manufacturer of speed reducers, motoreducers, shaft-mounted drives, flange-mounted drives, screw conveyo drives, fluid power drives, flexible couplings, herringbone and single helical gears, heavy gear drives, geared turbine and diesel marine drives.

PUMPS

ILLINOIS

Chicago 60618 — WEIL SERVICE PRODUCTS CORP., 2434 W. Fletcher St. Ph. 312-528-6800. Telex 25-4669. Manufacturer of liquids handling equipment. Valves, hose, pumps, tank cleaning equipment, hand pumps and hose reels.

IOWA

Cedar Rapids 52402 — NEWELL MACHINERY CO., 5501 North Towne Place NE. Ph. 319-393-1610.

MISSOURI

Independence 64058 — LELY INDEPENDENCE MFG. INC., Rt. 1, P.O. Box 274. Ph. 816-796-6550. Telex 42-6264.

OHIO

Ashland, OH 44805 — THE F.E. MYERS CO., div. of McNeil Corp., 400 Orange St. Ph. 419-322-1544. Manufacturer.

SIFTERS

ILLINOIS

Chicago 60650 — PRATER INDUSTRIES INC., 1515 S. 55th Ct. Ph. 312-656-8500. Telex 28-4312. Vibrating screens, Rota-Sieve.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Telex: 29-0445.

MISSOURI

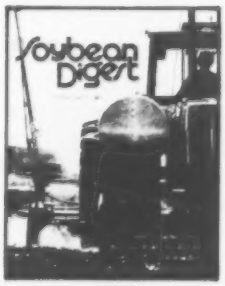
Kansas City 64108 — H.R. WILLIAMS MILL SUPPLY, 208 W. 19th. Ph. 816-471-1511. Replacement sifter screens, nylon screens and wire cloth, sifter brushes and rubber ball sieve cleaners and connecting sleeves.

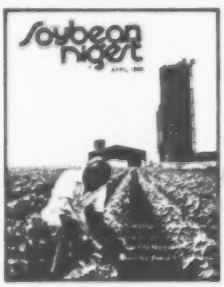
NEW YORK

Lancaster 14086 — TETKO INC., P.O. Box 183. Ph. 716-683-4050. Other offices: Monterey Park, CA; Rolling Meadows, IL; and Elmsford, NY. Sifter screens, testing sieves, sifter sleeves, filter fabrics, sifter brushes and sieve cleaners, wire cloth, nylon, polyester and silk screens and related sifter supplies.

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Eureka equipment. Powtek Power Sifter.

Soybean Digest





Let **SOYBEAN DIGEST** bring you the latest innovations for soybean production, marketing and management. **SOYBEAN DIGEST** is the professional soybean grower's guide to more profitable soybean production and marketing—keeping its readers abreast of the rapidly changing soybean scene.

SOYBEAN DIGEST's nine issues are free to qualified U.S. growers and American Soybean Association (ASA) members. U.S. subscriptions are $9 a year. Foreign subscriptions (with ASA membership only) are $65. Contact **SOYBEAN DIGEST,** P.O. Box 27300, St. Louis, MO 63141, for subscriptions.

OHIO

Cincinnati 45223 — ROTEX INC., 1236 Knowlton St. Ph. 513-541-1236. Telex 21-4206. High-capacity Rotex screeners used widely in the soybean industry.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph 717-546-8211. Telex: 841 411. Gyro-Whip™ sifters; Gyro-shakers;™ graders; Sani-Sizer™ multi-deck unit with 1-pc. molded plastic sieves; Roto-Shaker™ sifters.

SOYBEAN STORAGE
Elevator, Processor Units

ILLINOIS

Marengo 60152 — CHICAGO EASTERN CORP., 200 N. Prospect St. Ph. 815-568-7264. Storage tanks.

IOWA

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431.

New Hampton 50659 — HARVESTALL INDUSTRIES INC., 3 N. Walnut Ave. Ph. 515-394-4115. GRAINLAMP™ Bins, dormancy-controlled grain environment. Bin modernization equipment: floors, fans and Grainlamp™ bulbs for seed-perfect grain care. "Grain Ecology" — a textbook on all-electric, chill-cure management of grain.

MINNESOTA

Minneapolis 55440 — CARGILL INC., P.O. Box 9300. Ph. 612-475-6085. Telex: 29-0625. D. H. Leavenworth.

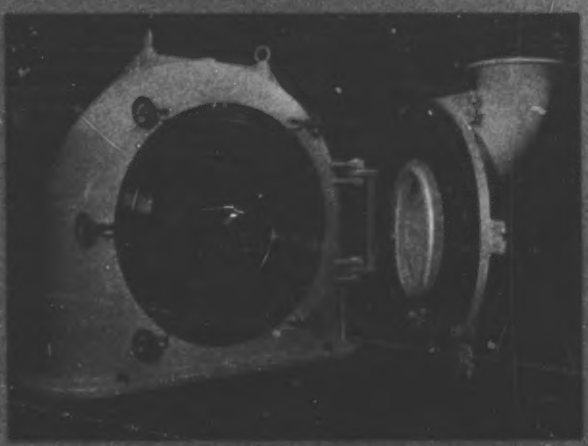
Minneapolis 55432 — CARTER-DAY CO., 500 73rd Ave. NE. Ph. 612-571-1000. Bulk storage bins.

MISSOURI

Sikeston 63801 — R. CLINTON CONSTRUCTION CO., Miner Rd. 314-471-1340. Design and construction of soybean elevators.

THE mill for grinding soya products...
Prater/Bauermeister *UNIVERSAL MILL*

- Up to 160 lbs/HP/hour with a fineness of approx. 99% minus 100 mesh
- No pregrinding. No classifying. Max. Mill size 150 HP



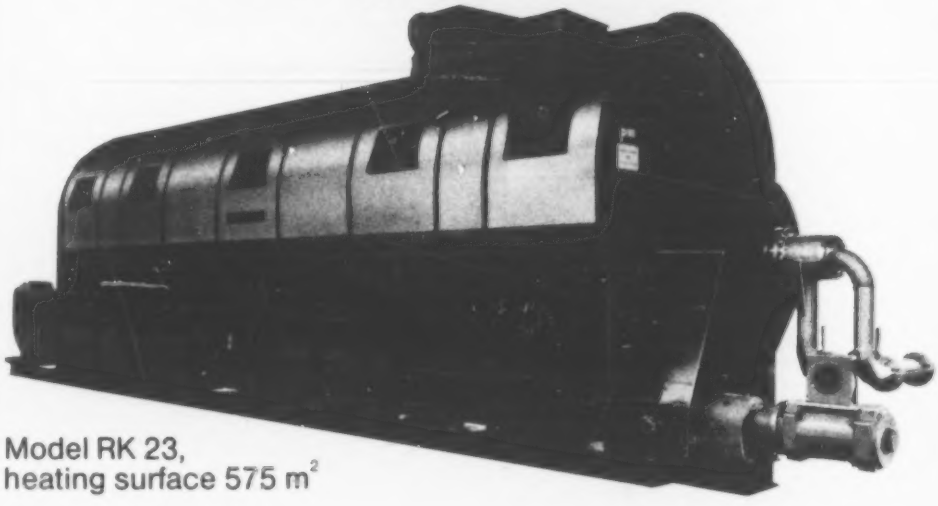
We design and build complete systems with air classifier for defatted and full-fat soya products minus 200 mesh. Sanitary design and safety controls to meet OSHA standards. Test lab available.

Please call or write for prompt attention to your grinding application.

Prater/Bauermeister, Inc.
1515 South 55th Court • Chicago, Illinois 60650 • Phone 312/656-8500

BEST AVAILABLE COPY

Ponndorf Tubular Bundle Drier for soybean meal



Model RK 23,
heating surface 575 m^2

PONNDORF tubular bundle driers are indirectly heated with steam, hot water, or thermo oil. The operation on the counterflow principle guarantees maximum drying effect with minimum heat expenditure, i.e. a heat consumption of approx. 3,135 kJ for 1 kg evaporated water.

Further advantages are

- **continuous operation without supervision**
- **low space requirement**
- **unsophisticated attendance and maintenance**
- **low drying temperatures**

Our tubular bundle driers model RK can also be used as coolers.

Ponndorf

Ponndorf Maschinenfabrik GmbH P.O.Box 10 2860
D-3500 Kassel Tel. 0561-51141 Telex 099760

NEW JERSEY

East Rutherford 07073 — AIR-TECH INDUSTRIES, INC., 85 Madison Circle Drive. Ph. 201-460-9730. Telex 133524. Air supported structures for soybean storage.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411. Various types of storage tanks for soybean meal storage.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061. Steel grain tanks.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

TEXAS

Houston 77008 — SMITH INDUSTRIES INC., P.O. Box 7398. Ph. 713-869-1421. Plant at 8000 Hempstead Rd., Houston, TX 77008. Bolted steel grain storage tanks and feed bins.

HOLLAND

Zevenbergen — MACHINEFABRIEK BRABANT D.v. OPSTAL B.V., Generaal Allenweg 2. Ph. 01680-25900. Storage equipment for beans and meal.

FARM UNITS

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Evanston 60204 — BURROWS DIV. SEEDBURO EQUIPMENT CO., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332. Storage bins.

INDIANA

Middlebury 46540 — PIONEER MANUFACTURING CO. Ph. 219-825-2065. Manufactures corrugated steel bins for storage of soybeans and other small grains. Also drying bins.

MINNESOTA

Minneapolis 55423 — PROFORM, 1500 E. 78th St. Ph. 612-861-7191. Plants at Paducah, KY; St. Paul, MN; and Sequin, TX. Self-supporting structures of fiberglass reinforced plastic.

MISSISSIPPI

Greenville 38701 — REED-JOSEPH CO., Hwy. 1 N. Subsidiary of International Systems & Controls Corp. Soybean storage and drying tanks.

OKLAHOMA

Muskogee 74401 — MUSKOGEE IRON WORKS INC., P.O. Box 188. Ph. 918-682-5521. Plants at Frankfort and Spaulding Sts. Structural steel fabricators.

Sapulpa 74066 — WEBCO TANK INC., Varlen Corp., 230 E. Jackson, P.O. Box 1208. Ph. 918-224-6232. Design, fabricate and erect large field-erected storage tanks for grain, water, chemicals, oil, etc.

TEXAS

Houston 77008 — SMITH INDUSTRIES INC., P.O. Box 7398. Ph. 713-869-1421. Plant at 8000 Hempstead Rd. Bolted steel grain storage tanks and feed bins.

SPRAYING EQUIPMENT

ILLINOIS

Auburn 62615 — DICKEY-john CORP., P.O. Box 10. Ph. 217-438-3371. Ground oriented controls for granular and liquid fertilizer spreaders and applicators.

IOWA

Boone 50036 — FARMRITE SPRAYER INC., subsidiary of George A. Rolfes Co., P.O. Box 458. Ph. 515-432-3300. TWX 910-520-2431. Agricultural Chemical Sprayers. Types: trailer, skid mount, 3-point and tractor mount. Nozzles, pumps and parts.

Clarion 50525 — HAGIE MFG. CO., P.O. Box 273. Ph. 515-532-2861.

Clear Lake 50428 — BEST-WAY INC., 1315 S. Eighth St. Ph. 515-357-6155. Trailer sprayers and saddle tank units. Information service to aid in spraying problems. Recirculating sprayers, pick-up units, 4-wheel drive front-mount units. 3 point tanic and boom units. Plus full line of parts.

MISSOURI

Independence 64058 — LELY INDEPENDENCE MFG. INC., Rt. 1, P.O. Box 274. Ph. 816-796-6550. Telex 42-6264, Clark fertilizer equipment.

OHIO

Ashland 44805 — THE F.E. MYERS CO., div. of McNeil Corp., 400 Orange St. Ph. 419-332-1544. Manufacturer of power sprayers.

TEMPERATURE SYSTEMS

ILLINOIS

Decatur 62526 — BURDICK AERATION & ELECTRONICS CORP., P.O. Box 2207. Ph. 217-422-9000. Design, manufacture, service and installation of temperature systems.

Skokie 60076 — MCC POWERS-FIAT, a unit of Mark Controls Corp., 3400 Oakton St. Ph. 312-673-6700. Temperature, pressure and humidity control instruments and systems for processing and space conditioning.

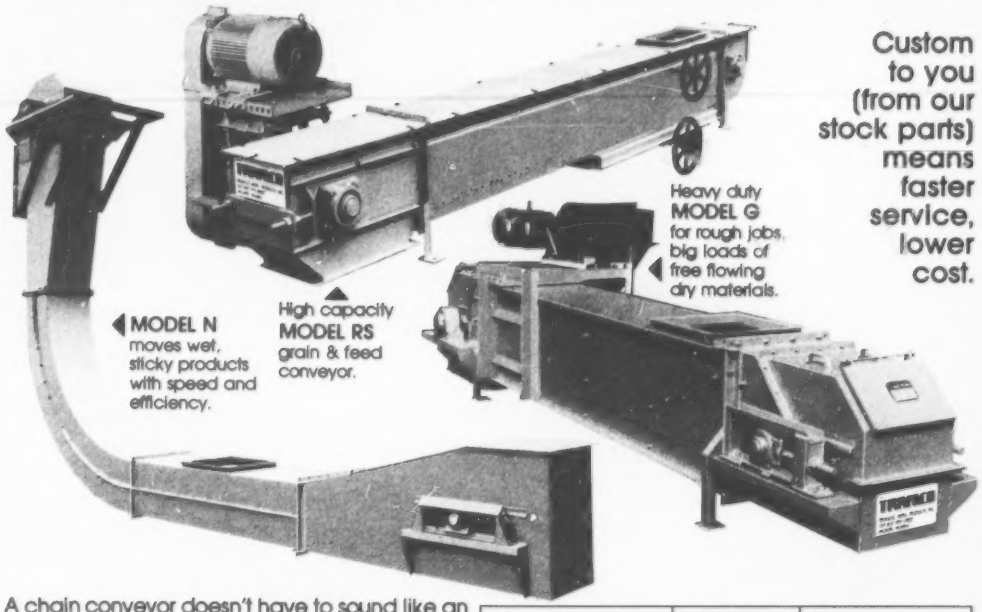
IOWA

Boone 50036 — GEORGE A. ROLFES CO. INC., P.O. Box 458. Ph. 515-432-3300. TWX 910 520-2431. Design, manufacture, sell and install Hot Spot Temperature Detection Systems for all types of grain storage. Service all types and brands of temperature systems.

NEW YORK

Fishkill 12524 — FOSS AMERICA INC., P.O. Box 504. Ph. 914-226-2056. Automated systems for temperature measurement and control of grains, feeds and oilseeds in storage. Manual instrumentation also available. New — rapid, automated macro-Kjeldahl.

TRAMCO CHAIN CONVEYORS: The Quiet Ones keep air and area clean.


MODEL N
moves wet, sticky products with speed and efficiency.
High capacity
MODEL RS
grain & feed conveyor.
Heavy duty
MODEL G
for rough jobs, big loads of free flowing dry materials.

Custom to you (from our stock parts) means faster service, lower cost.

A chain conveyor doesn't have to sound like an army tank, create in-plant dust problems or spillage of material along its length.

The Quiet Ones built by TRAMCO move materials by non-metallic flights instead of engaging in steel-to-steel contact. Long wearing UHMW polyethylene costs far less to replace, and starts up smoothly even when loaded.

The Clean Ones, too: Fully enclosed TRAMCO chain conveyors contain dust so well that additional dust control measures are often unneeded. Spillage is near zero.

TRAMCO conveyors work hard in the feed/grain/cereals industry. We're proud to drop a few Big Names who depend on TRAMCO conveyors for horizontal or low elevation conveying.

Custom designed chain conveyors are assembled from standard TRAMCO components, cutting delivery time. Let us share our know-how with you early in your planning. Write or call; no obligation.

Staley · Jarvis Engineers-Contractors · OKC Oklahoma-Kansas Grain Corp · Peavey Food Group · ADM · Gold Kist · Bunge Corporation · ConAgra · Nabisco · Continental Grain · Big 4 · Bolton Contractors & Engineers · Frisbie Construction Co., Inc.

...plus many other blue chip grain companies!

Supplying the Total Line of Chain Conveyors...

TRAMCO™

TRAMCO METAL PRODUCTS, INC. 1011 EAST 19th STREET WICHITA, KANSAS 67214 (316) 264-4604

New Hartford 13413 — THE PARTLOW CORP., subsidiary of Chicago Pneumatic Tool Co. Ph. 315-797-2222. Temperature controllers for grain-drying equipment.

TRUCK LIFTS

ARKANSAS

Little Rock 72203 — PHELPS MACHINERY CO., INC., 1700 East 9th St., P.O. Box 1093. Ph. 501-375-1141.

ILLINOIS

Neponset 61345 — MARTIN ENGINEERING CO., U.S. Rt. 34. Ph. 309-594-2384. Outside IL 1-800-447-5681. Rail car unloading systems.

INDIANA

Hammond 46320 — SCREW CONVEYOR CORP., 757 Hoffman St. Ph. 219-931-1450. Kewanee hydraulic truck dumpers.

NEBRASKA

Omaha 68132 — BENDER-ROSS EQUIPMENT CO. INC., 4504 Cuming St. Ph. 402-553-7342.Manufactures electric overhead Bender truck hoist and the Ross coded and noncoded electric special purpose elevator for use in grain and feed elevators.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692. Ph. 901-523-8061.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

UNLOADERS

ARKANSAS

Little Rock 72203 — PHELPS MACHINERY CO., INC., 1700 East 9th St., P.O. Box 1093. Ph. 501-375-1141.

IOWA

Adel 50003 — STRAIGHT ENGINEERING CO., P.O. Box 176. Ph. 515-993-4272. Hydraulic bulk box and hopper car unloader, scale mounting and meal handling both optional. Hydraulic truck unloader, with or without scale.

KANSAS

Dodge City 67801 — SPEED KING MFG. CO. INC., P.O. Box 1438. Ph. 316-227-7106. Offices: P.O. Box 924, Newnan, GA 30264; 105 Blair, Normal, IL 61761; P.O. Box 323, Iowa City, IA 52240. Portable elevators. Augers and screws, weigh hoppers, under-car conveyors, tubular conveyors, portable conveyors and augers.

Salina 67401 — THE WYATT MFG. CO. INC., P.O. Box 1227. Ph. 913-825-5441. Telex 417330. Augers, grain bin unloading equipment and grain spreaders.

PENNSYLVANIA

Colmar 18915 — MATERIAL HANDLING SYSTEMS DIV., FMC Corp. Ph. 215-822-0581. Barge unloaders and railroad car unloaders for handling grain, soybeans and meals.

TENNESSEE

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683. Steel fabricator.

WEIGHING AND PACKAGING EQUIPMENT

CONNECTICUT

Wallingford 06492 — REVERE CORP. OF AMERICA, 845 N. Colony Rd. Ph. 203-269-7701. Telex 963482. TWX 710-476-3197. Strain gage load cells.

ILLINOIS

Chicago 60607 — SEEDBURO EQUIPMENT CO., 1022 W. Jackson Blvd. Ph. 312-738-3700. Telex: TWX 910-221-5588.

Evanston 60204 — BURROWS DIV., SEEDBURO EQUIPMENT CO., 1316 Sherman Ave. Ph. 312-864-4175. Telex 285 332.

IOWA

Humbolt 50548 — THE CHANTLAND CO., div. of Douglas & Lomason Co., P.O. Drawer A. Ph. 515-332-4040. Bag and package conveyors, sacking scales, bag filling, weighing machines, valve baggers, automatic high speed net weighers and gross weighers, and electronic scales.

NEBRASKA

Omaha 68137 — INTERNATIONAL-STANLEY CORP., 13330 "I" St. Ph. 402-330-1500, 800-228-9257. Scales.

NEW JERSEY

Clifton 07015 — HOWE RICHARDSON SCALE CO., 680 Van Houten Ave. Ph. 201-471-3400. Telex 133494. Automatic weighing, sacking and proportioning equipment. Bench, floor, hopper and motor truck scales.

Passaic 07055 — MERRICK SCALE MFG. CO., 180 Autumn St. Ph. 201-779-0697. Telex 13-3315. WEIGHTOMETER belt conveyor scales. Heavy duty and low capacity weigh feeders.

NEW YORK

Silver Creek 14136 — S. HOWES CO. INC., 1950 Miller St. Ph. 716-934-2611. TWX 510-246-6935. Eureka bagging scales.

OKLAHOMA

Oklahoma City 73127 — SMICO INC., 500 N. MacArthur Blvd. Ph. 405-946-1461. Manufacturing.

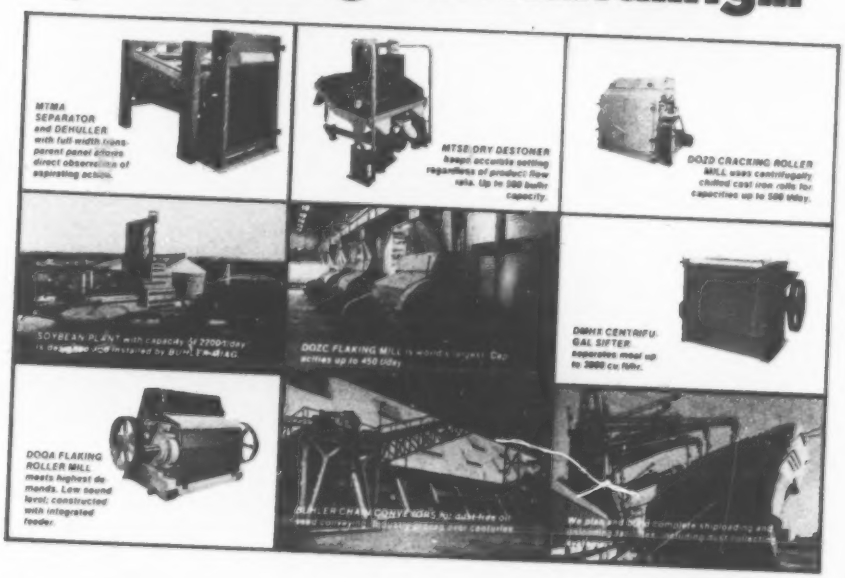
TEXAS

Waco 76710 — CROW SCALES INC., 315 Cotton Dr., P.O. Box 7429. Ph. 817-772-6070. Manufactures bulk weighing scales.

VERMONT

St. Johnsbury 05819 — FAIRBANKS WEIGHING DIV., Colt Industries 711 E. St. Johnsbury Rd. Ph. 802-748-5111; toll-free Ph. 800-451-4107. Truck scales, railroad track scales, hoppers scales and electronic (digital) weighing equipment.

For efficient, reliable processing and handling...


MTMA SEPARATOR and DEHULLER with full width transparent panel allows direct observation of aspirating action.
MTSE DRY DESTONER keeps accurate setting regardless of product flow rate. Up to 500 bu/hr capacity.
DOZD CRACKING ROLLER MILL uses centrifugally chilled cast iron rolls for capacities up to 500 t/day.
DOZC FLAKING MILL
DMHX CENTRIFUGAL SIFTER separates meal up to 3000 cu ft/hr.
DOQA FLAKING ROLLER MILL meets highest demands. Low sound level; constructed with integrated feeder.

Increase the profit potential in your preparation building with Buhler-Miag equipment and experience.

Since 1927 Buhler-Miag has contributed significantly to the technology of grain and oilseed processing and handling. We offer our complete line of equipment for your preparation plant, from unloading of oilseeds to flaked product, as well as dust control systems and electrical control panels. Buhler-Miag can also assume responsibilities for process design, plant operational analysis, installation supervision and start-up services. We'll even help train your operators. Our representatives are available to increase your profit potential.

WRITE FOR FREE BROCHURE on machines for edible oil mills equipment

BUHLER-MIAG

P.O. Box 9497, Minneapolis, MN 55440
Phone (612) 545-1401 Telex 29 0445
1925 Leslie St., Toronto, Ont. M3B 2M3
Phone (416) 445-6910 Telex 06 966 594

BUHLER BROTHERS LTD. CH 9240 Uzwil, Switzerland Phone (073) 50 11 11 Telex 77 541

*Official Meal Chemists National Soybean Processors Assn.
†Official Oil Chemists National Soybean Processors Assn.

ANALYSTS

ALABAMA

Birmingham 35202 — ALABAMA TESTING LABORATORIES.* P.O. Box 10881. Ph. 205-324-6243.

Montgomery 36101 — DEEP SOUTH LABORATORY.*† P.O. Box 4133. Ph. 205-288-8785. Analytical chemists for soybeans, cottonseed, peanuts, meals, protein concentrates, cottonseed oil, soy oil and tallow.

ARIZONA

Phoenix 85007 — ARIZONA TESTING LABORATORIES, 817 W. Madison. Ph. 602-254-6181. Div. of Claude E. McLean & Son Laboratories Inc. Analytical, testing and consulting laboratory.

ARKANSAS

North Little Rock 72119 — WOODSON-TENENT LABORATORIES INC., * 1805 E. 5th, P.O. Box 5341.

CALIFORNIA

Fresno 93716 — THE TWINING LABORATORIES INC., P.O. Box 1472, 2527 Fresno St. Ph. 209-268-7021. Completely equipped for feed analyses and all types of chemical analyses, spray residue.

Los Angeles 90058 — DAYLIN LABORATORIES, INC.,* 2800 Jewel Ave. Ph. 213-582-0981. Chemical and bacteriological analyses. Pesticide residue testing.

Los Angeles 90023 — GEO. W. GOOCH LABORATORIES LTD., *† 1250 S. Boyle Ave. Ph. 213-269-7421. Analytical and consulting chemist.

San Francisco 94103 — CURTIS — TOMPKINS LTD., *† 290 Division St. Ph. 415-861-1863. Cable Analyst. Cargo surveying and inspection at West Coast ports. Laboratory analysis of meal, oil and other products.

West Los Angeles 90025 — AGRI SCIENCE LABORATORIES INC., * 2122 S. Granville. Ph. 213-879-4592. Analytical testing including amino acids, pesticide residues, vitamins, research and development.

ATLANTA

Atlanta 30301 — LAW & CO., *† P.O. Box 1558. Ph. 404-577-4377.

Gainesville 30501 — WOODSON-TENENT LABORATORIES INC., * P.O. Box 1097.

ILLINOIS

Countryside (La Grange) 60525 — TENCO HYDRO INC., 5220 East Ave. Ph. 312-482-7200. Laboratory services for soybeans and meal, grain testing and pollution tests.

Lansing 60483 — CHARLES V. BACON INC., 2533 Bernice Rd. Ph. 312-895-5060. Laboratory for chemical analysis, sampling, inspection, weighting and cargo surveying for the soy oil industry.

IOWA

Des Moines 50305 — WOODSON-TENENT LABORATORIES INC., *† 3507 Delaware Ave.

Eagle Grove 50533 — IOWA TESTING LABORATORIES INC., *† Ph. 515-448-4741.

Storm Lake 50588 — FORMULA IV LTD., P.O. Box 1104. Ph. 712-732-4248. Commodity trading advisor. Commodity pool operator.

LOUISIANA

Destrehan 70047 — SOUTH LOUISIANA LABORATORIES INC., * P.O. Box 128, 8894 River Rd. Ph. 504-764-9512. TWX 810-950-6577. Referee chemist for oil cake, meal and protein concentrates. Complete analysis of soybeans, meal, flour, grain and related cereal products. Specializing in ambient air surveys in conjunction with federal and state requirements.

Kenner 70062 — (NEW ORLEANS AREA) SGS CONTROL SERVICES INC., 2740 Indiana Ave. Ph. 504-469-6401. Sample, condition inspection, weighing of grains, soy meal and byproducts, surveys soy oil, draft surveys. Referee chemists meal and oils. Other labs: Carteret, NJ; Houston, TX.

Marrero 70072 — CHARLES V. BACON INC., 730 Barataria Blvd. Laboratory for chemical analysis, sampling, inspection, weighting and cargo surveying for the soy oil industry.

New Orleans 70115 — SOUTHERN TESTING LABORATORIES INC., *† 824 Marengo St. Ph. 504-8995677. Complete vegetable, animal and fish oil

service. Referee chemists AOCS, official chemists NCPA and NSPA.

New Orleans 70123 — THIONVILLE LABORATORIES,*† 5440 Pepsi St. Ph. 504-733-9603. Chemist for oil cake and meal, fatty oils, tallow and grease, protein concentrates and soybeans. Analysts, samplers, weighters, inspectors. Branches in Chicago, San Francisco, Baton Rouge, Houston and Mobile.

MINNESOTA

Minneapolis 55415 — DOTY-WILHOT LABORATORIES INC.,* 1000 Flour Exchange, P.O. Box 15093. Ph. 612-339-7707. Div. of Doty Laboratories, 1435 Clay St. North Kansas City, MO 64116. Referee chemists for soybeans, oil cake and meal, protein concentrates, grease and tallows.

MISSISSIPPI

Clarksdale 38614 — WOODSON-TENENT LABORATORIES INC., * P.O. Box 845

Greenville 38702 — BARROW-AGEE LABS INC.*

Greenwood 38931 — BARROW-AGEE LABS INC.

Jackson 39207 — BARROW-AGEE LABS INC.*†

MISSOURI

Joplin 64801 — CHEM-STAAT LABORATORY, 2008 Sargeant, Suite 200. Ph. 417-781-2666. Complete analysis on processed soybean, feed ingredients, food products and meats.

NORTH CAROLINA

Goldston 27252 — WOODSON-TENENT LABORATORIES INC., * P.O. Box 604.

NEW JERSEY

Carteret 07008 — SGS CONTROL SERVICES INC., 20 Lafayette St. Ph. 201-541-7200. Sampling, weighing, vegetable oil surveys, draft surveys. Referee chemists meal, by-products and oils.

Jersey City 07302 — CHARLES V. BACON INC., † 34 Exchange Place. Ph. 201-433-0560. (NJ) & 212-2270165 (NY). Telex: 710-730-5215. Laboratory for chemical analysis, sampling, inspection, weighing and cargo surveying for the soy oil industry.

Trenton 08603 — NEW JERSEY FEED LABORATORY INC., * 910 Pennsylvania Ave., P.O. Box 357. Ph. 609-392-8818. Referee chemist AOCS, analysts of oil cake and meal, protein concentrates.

OKLAHOMA

Oklahoma City 73125 — SOUTHWELL LABORATORY,*† P.O. Box 25001. Ph. 405-232-1966.

SOUTH CAROLINA

Columbia 29202 — HAHN LABORATORIES,*† 1111 Flora St., P.O. Box 1177. Ph. 803-799-1614.

TENNESSEE

Memphis 38101 — BARROW-AGEE LABORATORIES INC.,*† P.O. Box 156. Ph. 901-332-1590. Branches at Greenville, Greenwood and Jackson, MS.

Memphis 38101 — WOODSON-TENENT LABORATORIES INC.,*† 345 Adams, P.O. Box 2135. Ph. 901-525-6333. Telex: 810-591-1340. Also offices at Little Rock, AR; Des Moines, IA; Clarksdale, MS; Goldston, NC.

TEXAS

Brownsville 78521 — PAN AMERICAN LABORATORIES,* 5369 E. 14th St. Ph. 512-831-4266. Chemical analysis of soybeans, soybean meal, soy oil and other by-products. Referee chemist for AOCS.

Dallas 75221 — POPE TESTING LABORATORIES,*† P.O. Box 903. Ph. 214-742-8491.

Fort Worth 76107 — INDUSTRIAL LABORATORIES,* 3001 Cullen St. Ph. 817-332-2259. Analyses on cake and meal. Official sampling on shipments.

Fort Worth 76101 — SOUTHWESTERN LABORATORIES,*† 2900 Cullen St., P.O. Box 1379. Ph. 817-332-5181.

Galena Park 77547 — CHARLES V. BACON, INC., 1308 Holland Ave., P.O. Box 65. Ph. 713-453-8355. Telex 910 881-3705. Laboratory for chemical analysis, sampling, inspection, weighing and cargo surveying for the soy oil industry.

Harlingen 78550 — PATTISON'S LABORATORIES INC.,* 211 E. Monroe St. Ph. 512-423-3196.

Houston 77001 — HOUSTON LABORATORIES,*† 516 Arlington St., P.O. Box 132. Ph. 713-861-2629.

Houston 77011 — SGS CONTROL SERVICES INC., 6001 Gulf Freeway. Ph. 713-923-2521. Sampling, weighing, draft surveys, grain; soybean meal and by-products. Vegetable oil surveys. Analysis meal, by-products and oils

Lubbock 79408 — A & L PLAINS AGRICULTURAL LABORATORIES INC.,* 302 34th H., P.O. Box 1590. Ph. 806-763-4278. Official and referee chemist, weigher and inspector AOCS and NSPA.

Lubbock 79408 — FOX TESTING LABORATORIES,*† P.O. Box 1299.

San Antonio 78207 — TEXAS TESTING LABORATORIES,* 1610 S. Laredo.

VIRGINIA

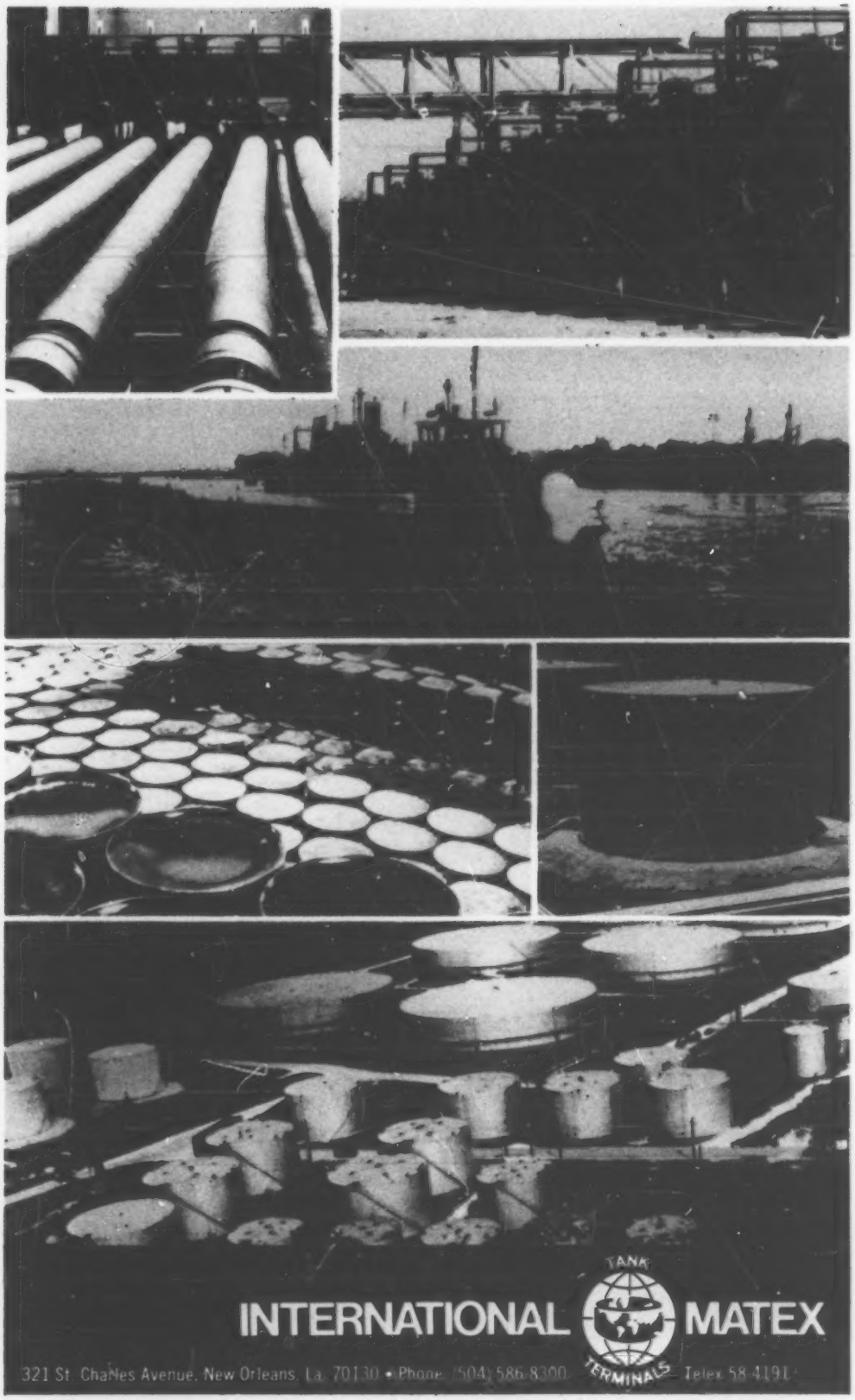
Virginia Beach 23451 — JENNINGS LABORATORIES INC., P.O. Box 851, 1118 Cypress Ave. Ph. 804-425-1498. Laboratory analysis.

WASHINGTON

Seattle 98104 — LAUCKS TESTING LABORATORIES INC., 1008 Western Ave. Ph. 206-622-0727. Analytical and consulting chemists and microbiologists.

BRAZIL

Rio de Janeiro-RJ — THIONVILLE INSPETORA DE CARGAS E ANALISES LTD., Alcantara Machado 36 S/LOJA-SALAS 208/209. Ph. 233 6899. Telex 2123802. Offices: Sao Paulo, Santos, Paranagua, Porto Alegre and Rio Grande, Brazil, and Hamburg,


INTERNATIONAL
TANK
TERMINALS
MATEX
321 St. Charles Avenue, New Orleans, La. 70130 • Phone (504) 586-8300 Telex 58-4191

West Germany. Companies will provide inspection, weighing, sampling and analyses of all grains, meals, oils, tallow, sugar and molasses.

CANADA

Saskatoon; SAS S7N 2R4 — POS PILOT PLANT CORP. U of S Campus. Ph. 306-665-7791. Telex: 074-2883 POS SKN. Research and development facilities available on fee-for-use basis. Pilot scale processing equipment and associated laboratory support.

FRANCE

Paris 75002 — THIONVILLE SURVEYING (France) S.A.R.L., 149 Rue Montmartre. Ph. 508-9531. Sampling, weighing, and analysis of grain.

GERMANY

D-2000 Hamburg 36 — CONTROL CO. M.B.H., 7, Gr. Theaterstr., Telex: 021 1171. Sampling, weighing, analysis of grain.

2000 Hamburg 11 — THIONVILLE SURVEYING GmbH, Schaartor 1. Ph. 040 36-75-39. Telex 0 212 216.

NETHERLANDS

3000 AN Rotterdam — SOCIETE GENERALE DE SURVEILLANCE (Nederland) B.V., 105 Wijnhaven. Telex: 21401, 25255 (grain dept.), 27460 (oils and fats). Sampling, weighing, inspection and analysis soybean meal, by-products of grains, by-products of vegetable oils.

Rotterdam 3007 — THIONVILLE SURVEYING COMPANY B. V., Vierhavenstraat 40, Postbox 6022. Cable "SUPERVILLE." Telex 27 254. Ph. 774155. Office specializes in inspection, weighing, sampling of grains, meals and oils.

3029 BE Rotterdam — THIONVILLE SURVEYING CO. (Netherlands) B.V., Vierhavensstraat 40, P.O. Box 6022, 3002 AA Rotterdam, Ph. 77 41 55. Telex: 27 254. Cable: "SUPERVILLE". Office specializes in inspection, weighing, sampling of grains, meals and oils.

BROKERS, COMMISSION MERCHANTS, JOBBERS

ARKANSAS

North Little Rock 72115 — J.W. (JACK) NUTT CO., P.O. Box 735. Ph. 501-376-0431. Brokers of soybeans and soybean meal, cash and futures.

CALIFORNIA

Arcadia 91006 — CECIL BAYS & ASSOCIATES, 1201 W. Huntington Dr. Ph. 213-449-3383. Vegetable oil broker.

San Francisco 94107 — W. W. SAINT CO., 1301 Sixth St., P.O. Box 77501. Ph. 415-626-7110. Sales representation in California and Hawaii. Food brokers — edible soybean specialists. Oriental food products.

FLORIDA

Jacksonville 32201 — JAMES A. AUSTIN CO., 218 W. Adams St., P.O. Box 992. Ph. 904-356-0431. Grain and feed ingredient broker.

GEORGIA

Atlanta 30342 — BROOKS & EVANS INC., 5780 Peachtree Dunwoody Rd., Suite 290. Ph. 404-256-3900. Telex: 54-9657. Brokers in soybean products.

ILLINOIS

Bloomington 61701 — AG-WORLD EXPORTS, 2310 E. Oakland Ave., Suite 12. Ph. 309-662-9371. Telex: 510-352-2171 MICO, INC.

Chicago 60604 — BACHE HALSEY STUART SHIELDS INC., 141 W. Jackson Blvd. Ph. 312-630-7220. Broker in soybeans, soy oil, soybean meal and grain futures.

Chicago 60604 — CARGILL INVESTOR SERVICES INC., 141 W. Jackson Blvd. Ph. 312-435-8300. Offices: Atlanta, GA; Kansas City, MO; Miami, FL; Minneapolis, MN; and New York, NY.

Chicago 60604 — CONTICOMMODITY SERVICES, Board of Trade Bldg. Ph. 312-786-0800. Subsidiary of Continental Grain Co. Offices: Amsterdam, Netherlands. Ph. 011-31-20-443344; Atlanta, GA. Ph. 404-393-1740; Champaign, IL, Ph., 217-359-5121; Chicago, IL, Ph. 312-786-0800; Dallas, TX, Ph. 214-692-7441; Denver, CO, Ph. 303-321-2255; Des Moines, IA, Ph. 515-274-4961; Hamburg, West Germany, Ph. 011-49-40-340-476; Houston, TX, Ph. 713-850-1801; Kansas City, MO, Ph. 816-753-5544; London, England, Ph. 011-44-1-4883232; Los Angeles, CA, Ph. 213-879-3833; Lubbock, TX, Ph. 806-763-9276; Memphis, TN, Ph. 901-767-3970; Minneapolis, MN, Ph. 612-341-6050; New Orleans, LA, Ph. 504-581-1144; New York, NY, Ph. 212-432-2800; Oklahoma City, OK, Ph. 405-843-9903; Orlando, FL, Ph. 305-862-1100; Portland, OR, Ph. 503-248-9711; St. Louis, MO, Ph. 314-533-6383; San Diego, CA, Ph. 714-231-1711; San Francisco, CA, Ph. 415-398-7900; Seattle, WA, Ph. 206-682-8060; Washington, DC, Ph. 202-463-2700; West Lafayette, IN, Ph. 317-463-7515; Zurich, Switzerland, Ph. 0169-3200; Geneva, Switzerland, Ph. 011-41-22-21833; Lugano, Switzerland, Ph. 011-41-91-22-74-75; and Vancouver, Canada, Ph. 604-687-1131.

Chicago 60604 — HENNESSY & ASSOCIATES, Board of Trade Bldg., 141 W. Jackson Blvd. Ph. 312-341-0444. Telex: 910-221-2112.

Chicago 60604 — MERRILL LYNCH, PIERCE, FENNER & SMITH INC., 141 W. Jackson Blvd. Ph. 312-786-3636. Commodity futures brokers — all markets.

Chicago 60604 — MAYER-GELBORT INC., 141 W. Jackson Blvd. Ph. 312-427-1044. Commodity hedging.

Chicago 60604 — PACIFIC TRADING CO., 141 W. Jackson Blvd. Commodity futures brokers — grains.

Chicago 60604 — PAINE, WEBBER, JACKSON & CURTIS INC., 208 S. LaSalle St. Ph. 312-781-9200. Telex 254464. Securities and commodity brokers.

Chicago 60606 — DEAN WITTER REYNOLDS ORGANIZATION INC., 150 S. Wacker Dr. Ph. 312-368-

The soybean is almost as old as agriculture itself.

Yet U.S. interest in this protein-rich bean didn't really blossom until the 1920's – the same time that the Continental Grain Company began operations in Chicago.

Continental and soybeans have grown up together.

In 1924, for example, U.S. soybean production was a mere five million bushels – compared to 1.8 billion bushels in the latest crop year.

Today, the soybean is a leading cash crop, and Continental is a major domestic and international marketer of soybeans and their products.

That could be a satisfying end to the story. But the real success of this golden bean is all in the future.

As world demand for proteins, fats and vegetable oils continues to grow, forecasters predict that U.S. production will increase by 20% or more in the next 10 years and that soybean acreage will be comparable to corn within 20 years.

When all this comes about, you can be sure of one thing. We'll be here with the facilities, the people and the wherewithal to serve the growing needs of soybean sellers and buyers alike.

Continental Grain Company, 277 Park Avenue, New York, N.Y. 10017.

Continental Grain

When soybeans first became a successful U.S. crop, Continental Grain was here to market them.

BEST AVAILABLE COPY

6222. Worldwide offices headquartered at 130 Liberty St. New York, NY 10006. Hedging facilities at the Chicago Board of Trade. Commodity and grain brokers.

Chicago 60606 — W.J. KAMP & CO., 2 N. Riverside Plaza. Ph. 312-454-0355. Also Livestock Exchange Bldg., Omaha, NE. Brokers of vegetable oils and animal fats.

Decatur 62525 — COMMODITY SERVICE CO. INC., subsidiary of Economic Research Inc. and Globe Research Ltd., P.O. Box 1681. Ph. 217-422-4175. Commodity advisors for agribusiness and industrial hedging and cash purchasing and selling. Manage producer and purchaser future market hedging plus cash sales/purchases on a fee basis (retainer).

Des Plaines 60018 — SOY-COT SALES INC., 2590 E. Devon Ave. Ph. 312-297-4160. Telex 726319. Crude and degummed soy oil, crude and bleachable cottonseed oil, 44% and 50% soybean meal, cottonseed meal.

Northbrook 60062 — THE NELLIS FEED CO., 899 Skokie Blvd. Ph. 312-498-1610. Telex 28-2583. Brokers of soybean meal and other feed ingredients.

Oak Brook 60521 — W. M. SIMERAL & CO. INC., Windsor Office Plaza, 210 W. 22nd St., Suite 120. Ph. 312-654-3500. Telex 281006. Vegetable oil brokers.

IOWA

Cedar Falls 50613 — L.P. SALES CO. INC., P.O. Box 772. Ph. 319-266-1731. Seed brokerage. Private pedigree soybean seed for private brand marketing.

MINNESOTA

Bloomington 55431 — THE PILLSBURY CO., Feed Ingredients Div. Ph. 612-330-5231. Branch offices: Buffalo, NY; Enid, OK; Ft. Worth, TX; Fresno, CA; Kansas City, MO; Memphis, TN; Bloomington, MN; Springfield, IL; Calgary, Alb., Lacolle, Que., and London, Ont., Canada. Commodity merchants in soybean meal and other feed ingredients.

Minneapolis 55415 — FINCH FEED & GRAIN CO., P.O. Box 15005, Grain Exchange Bldg. Ph. 612-333-3536. Feed ingredient and grain merchants serving the upper Midwest.

Minneapolis 55435 — HENKEL CORPORATION, 4620 W. 77th. Ph. 612-830-7810. Telex 290472. Purchases vegetable oil deodorizer distillate.

Minneapolis 55402 — PEAVEY CO., 730 Second Ave. S. Ph. 612-370-7551. Telex 290125.

MISSOURI

St. Louis 63105 — CLAYTON BROKERAGE CO. OF ST. LOUIS, INC., 7701 Forsyth, Suite 300. Ph. 314-727-8000. Telex 447-210 CBCO CLAY. Offices: Springdale, AR; Los Angeles, CA; Denver, CO; Washington, DC; Ft. Lauderdale, FL; Atlanta, GA; Chicago, IL; Fort Wayne, IN; Des Moines, IA; Louisville, KY; Detroit, MI; Edina and Minneapolis, MN; St. Louis and Kansas City, MO; Albuquerque, NM; New York, NY; Columbus, OH; Philadelphia, PA; Aberdeen, SD; Memphis, TN; Amarillo, Austin, Dallas and Houston, TX. Commodity brokerage.

NEW JERSEY

Wayne 07470 — MATTHES & PORTON (U.S.A.) INC., 43 Mac Donald Dr. Ph. 201-696-0990. Telex 130408. Brokerage firm for vegetable oils and oilseeds in the U.S.

NEW YORK

New York 10038 — BACHE HALSEY STUART SHIELDS INC., Commodity Div. Headquarters office: 100 Gold St. Ph. 212-791-3264. Branch office: 141 W. Jackson Blvd., Chicago, IL. Ph. 312-630-7220. Execution of orders in futures contracts for soybeans, soy oil and meal.

New York 10080 — MERRILL LYNCH, PIERCE, FENNER & SMITH INC., One Liberty Plaza. Ph. 212-766-7054. Commodity futures brokers — all markets.

New York 10004 — SHEARSON HAYDEN STONE INC., One Western Union International Plaza. Ph. 212-623-8000. Telex WU 125448 Haydengold NY. Price forecasting, inventory control and financing. Member of principal U.S. and European commodity exchanges as well as the New York and other stock exchanges. Offices in 117 cities.

Scarsdale 10583 — HASSELMAN BROKERAGE CO. INC., Harwood Bldg. Ph. 212-234-8000, 914-725-3553. Telex 137452. Brokers in vegetable oils, tallow, grease, acidulated soapstocks and feed ingredients.

Valley Stream 11582 — SEAMAN, de RYSS INC., Alnor Oil Co. Inc., P.O. Box 237. Ph. 212-895-5998,

BARZEN OF MINNEAPOLIS, INC.

Exporters - Soybeans - Sunflowers for Seeding

ALL VARIETIES - HIGHEST SPECIFICATIONS, CERTIFIED AND UNCERTIFIED SOYBEANS, OILSEEDS, SUNFLOWER SEED, SEED GRAINS, LEGUMES AND GRASSES, PROMPT REPLY TO INQUIRIES.

Cable BARZEN TELEX 29-0611

BARZEN OF MINNEAPOLIS, INC.

455 HARRISON STREET NORTHEAST

PHONE 612 379 2060 MINNEAPOLIS, MINNESOTA 55440 Member ASTA

516-561-6146. Telex WV 96130. Vegetable oils, tallow, acidulated soapstock, castor and tung oils and coconut oils.

PENNSYLVANIA

Philadelphia 19106 — AGRICOL CORP. INC., 501 The Bourse Bldg. Ph. 215-627-6295. Jobbers and grain merchants. Buying and selling soybeans and soybean meal.

TENNESSEE

Memphis 38134 — GUILLORY SALES INC., 5550 Stage Rd. Ph. 901-372-1944. Telex 53-3212. Soy oil, meal and hulls and cottonseed oil, meal and hulls brokers.

Memphis 38137 — DEAN WITTER REYNOLDS INC., 5100 Poplar Ave., Suite 123, Ph. 901-767-6250; Suite 2626, Ph. 901-683-5271.

TEXAS

Dallas 75240 — CARPENTER-WILKINSON CO., 611 Carillon Tower W., 13601 Preston Rd. Ph. 214-387-1466. Brokers of soy oil and soybean meal.

Dallas 75206 — LOGAN-HUGHSTON CO. INC., 222 Meadows Bldg. Ph. 214-369-3191: Broker — cottonseed meal, soybean meal.

WISCONSIN

Waupaca 54981 — THE LANDIS CO. INC. P.O. Box 385. Ph. 715-258-2122. Telex 262721. Field seed brokerage. Domestic and overseas sales.

GERMANY

Hamburg 13 — ALBRECHT H. ZETZSCHE, Mollerstrasse 16. Ph. 44 13 61. Telex 0211961. Broker for export to Europe.

NETHERLANDS

Rotterdam — MATTHES & PORTON, Coolsingel 75. Ph. 010-330011. Telex 22110. Brokerage firm for all vegetable oils and oilseeds in Europe.

Rotterdam — JULIUS VAN ROOSENDAAL, P.O.B. 4131. Ph. 205955. Independent broker of soybeans, all vegetable oils and linseed oil, execution of sales/purchase orders.

COMMODITY NEWS WIRES

ILLINOIS

Chicago 60604 — COMMODITY NEWS SERVICES, Chicago Bureau, 141 W. Jackson, Suite 1790. Ph. 312-437-1784.

KANSAS

Leawood 66206 — GRAIN INSTANT NEWS, subsidiary of Commodity News Services Inc., P.O. Box 6053. Ph. 913-642-7373.

Leawood 66206 — COMMODITY NEWS SERVICES, Headquarters: P.O. Box 6053. Ph. 913-642-7373. Telex 42585. Market related news and statistics.

NEW YORK

New York 10048 — COMMODITY NEWS SERVICES, N.Y. Bureau, Four World Trade Center, Suite 7190. Ph. 212-432-5664.

EXPERIENCE. EXPERTISE.

Woodson-Tenent Laboratories, with over 45 years EXPERIENCE, is a modern testing laboratory with a highly skilled staff and technical instrumentation that is capable of EXPERTLY expediting your product analysis, accurately and efficiently, from our main office or 7 conveniently located branch laboratories.

Feed, drugs, and rendering products testing and analysis is our business, and each branch laboratory is geared to meet your strict requirements and daily demands and needs. We offer full service agricultural and environmental chemical analysis.

Rely on Woodson-Tenent for experience . . . expertise. Contact us today for full information.

Woodson-Tenent Laboratories

P. O. Box 2135
345 Adams Ave. Memphis, Tennessee 38101
Phone: 910-525-6333

BRANCH OFFICES:

Clarkesdale, Miss. 38614 · P.O. Box 845 · 4th Street Extended
Des Moines, Iowa 50305 · P.O. Box 1292 · 3507 Delaware Ave.
Gainesville, Ga. 30501 · P.O. Box 1097 · Atlas Circle
Goldston, N.C. 27252 · P.O. Box 604 · South Church St.
N. Little Rock, Ark. 72119 · P.O. Box 5341 · 1805 E. 5th St.
Dayton, Ohio 45414 · 5657 Brentlinger Dr.

New York 10005 — REUTERS, 2 Wall St. Ph. 212-732-8500. Reporting current grain and livestock information as well as related news.

DISTRICT OF COLUMBIA

Washington 20045 — COMMODITY NEWS SERVICES, Washington Bureau, National Press Bldg., Suite 1195. Ph. 202-637-3650.

CONSTRUCTION CONTRACTORS

ILLINOIS

Chicago 60606 — DAVY McKEE CORP., 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254562. Cable ARMAC, CHICAGO. Feasibility studies, reports, complete plant design, equipment procurement, construction and start-up. Grain handling, storage, and drying; solvent extraction; protein plants; oil processing; fatty acids plants; worldwide capabilities and single source responsibility. Not an equipment supplier so can offer owner unbiased recommendations for best equipment selection.

Des Plaines 60016 — THE AUSTIN CO., Process Div., 2001 Rand Rd. Ph. 312-694-4300. Surveys, reports, complete plant design, equipment and construction.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Complete solvent extraction, oil processing, physical refining, deodorizing and fatty acid plants.

Mt. Zion 62549 — M&E ENGINEERING SERVICE, INC., P.O. Box 309, Ph. 217-864-2643. Engineering design and construction of agricultural-chemical processing; vegetable oil extraction, vegetable oil processing, energy economies, modification and design for E.P.A. compliance.

IOWA

Cedar Falls 50613 — SOYPRO OF IOWA, INC., 314 Main St. Ph. 319-277-4700. Telex 465653. Specialized in design and construction of oilseed processing plants, vegetable protein plants, soy milk plants. Available services include site selection, preliminary layouts, feasibility reports; also project financing in most countries of the world. Construction of: seed receiving and storage, preconditioning, seed preparation, solvent or expeller extraction, proteins processing, oil refining, product storage and shipping, laboratory facilities, power plants, electric sub-stations, dust-control, safety and environmental systems, transport facilities. Unbiased selection of best equipment for each application by fully independent group.

KENTUCKY

Louisville 40222 — AMERICAN DRYNAMICS, INC., P.O. Box 22588, Ph. 502-425-6716.

MISSISSIPPI

Greenville 38701 — REED-JOSEPH SYSTEMS, Hwy. 1 N. Ph. 601-335-2341. Subsidiary of International Systems & Controls Corp. Designer, manufacturers, erectors of grain storage and drying installations.

MISSOURI

Sikeston 63801 — R. CLINTON CONSTRUCTION CO., Miner Rd. Ph. 314-471-1340. Design and construction of soybean elevators.

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO. Ph. 513-773-3420. Telex 288009. Solvent extraction and screw press processing plants.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP. CHEMICAL PLANTS DIV., One Oliver Plaza. Ph. 412-566-3655. Complete vegetable oil processing plants. Engineering and construction of plants for food processing.

TENNESSEE

Memphis 38117 — INDUSTRY GENERAL CORP., 5384 Poplar, Suite 500. Ph. 901-682-3314. Construction contractors and engineering services.

Memphis 38106 — MANUFACTURERS MAINTENANCE SERVICE, INC., 83 W. EH Crump Blvd., Ph. 901-948-2564. Steel fabrication, equipment installation and millwrights.

Memphis 38116 — PSI PROCESS SYSTEMS INC., 2930 Airways Blvd. Ph. 901-345-8760. Process design, feasibility studies, detailed engineering, procurement, construction and start-up services for complete plants.

Memphis 38131 — S & W CONSTRUCTION CO., 2881 Directors Cove. General contracting — slipform, millwright and all phases of design and construction of soybean storage and processing plants.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Design, manufacture and construction complete soybean extraction and oil processing installations.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29.

CONSULTANTS

ILLINOIS

Champaign 61820 — CHARLES ISDALE & ASSOCIATES, INC., Country Fair Box 3226, Ph. 217-351-3117. Oilseed and specialty extraction plants, solvent recovery, desolventizing heat sensitive materials. Process, energy, safety and economic evaluation. Brochure provided upon request.

Chicago 60601 — GLOBE ENGINEERING CO., 222 N. Dearborn St. Ph. 312-431-6800. Telex 270116 GSI INC CGO. Plant layout, engineering and architectural design and construction management.

Chicago 60606 — DAVY McKEE CORP., 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254562. Cable ARMAC, CHICAGO. Specialists in grain handling and storage elevators, oilseeds preparation and extraction, oilseeds proteins, feed mills, edible oil processes, fatty acids and fatty chemicals, specialty chemicals and pharmaceutical intermediates, consumer products packaging and warehousing,

utilities and services, environmental engineering. Scope includes complete services from feasibility studies through worldwide single source responsibility. Not an equipment supplier so can offer owner unbiased recommendations for best equipment selection.

Chicago 60606 — WURSTER & SANGER INC., 222 W. Adams. Ph. 312-977-4890. Chemical engineering consultants in oils, fats, glycerine, fatty acids and protein.

Countryside (La Grange) 60525 — TENCO HYDRO INC., 5220 East Ave. Ph. 312-482-7200. Laboratory services and custom waste treatment facilities.

Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. Solvent extraction plants, protein and lecithin plants. Process and plant evaluations, economic studies, flows, layouts, markets and product applications.

Decatur 62525 — COMMODITY SERVICE CO. INC., P.O. Box 1681. Ph. 217-422-2175. Branches in New York and London. Consultant to agribusiness and industry in soybeans, meal and oil.

Decatur 62525 — MYERS ENGINEERS, P.O. Box 1493. Ph. 217-429-2704. Solvent oil extraction and refining plants. Process evaluations, economic studies, layouts, flow sheets, air and water pollution studies.

Des Plaines 60016 — THE AUSTIN CO., Process Div., 2001 Rand Rd. Ph. 312-694-4300. Surveys, reports, complete plant design, equipment and construction.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Engineering consultants in solvent extraction, oil processing, fatty acid processing and production. Operation improvement programs, evaluations, reports and contract research.

Elk Grove Village 60007 — FOOD INGREDIENTS, INC., 2300 E. Higgins Rd., Suite 213, P.O. Box 157. Ph. 312-439-3200. Consulting for soybean processing and specialty soybean products.

Morton Grove 60053 — J. RAKOSKY SERVICES, 5836 Crain St. Ph. 312-966-7660. Food industry consultant. Specialist in soy product technology involving the production of soy products and their use in food systems. Scope of services include microbiological control, plant sanitation, nutrition, regulatory affairs, labeling, technical literature and technical sales training.

Mt. Zion 72549 — DIKTIC INC., P.O. Box 309. Ph. 217-864-2775. Technical and management consulting, engineering, plant layout, process and equipment selection, installation, plant operation, personnel training, operating methods and specification. E.E. Petty, chief executive.

Park Ridge 60068 — CREST PRODUCTS INC., 1411 Peterson Ave. Ph. 312-774-8391. Consultants —soybeans and oilseed processing, specialty soy protein products, surveys, plant location and layout, design,

SCHOUTEN INTERNATIONAL INC.

6750 FRANCE AVENUE SOUTH / MINNEAPOLIS, MINNESOTA 55435

Telephone: (612) 920-7700 / Cable: Schouten - Minneapolis / Telex: 290815

SHIPPERS OF GRAINS AND FEED INGREDIENTS TO WESTERN EUROPE AND OTHER WORLD MARKETS

Subsidiary of Schouten/Giessen N.V., Holland

equipment selection, construction, training of personnel, product and market development. Raw materials, equipment and supplies purchasing.

IOWA

Cedar Falls 50613 — C.W. RANDELL, INC. P.O. Box 865, 209 Franklin St. Ph. 319-277-6121. Telex: 465642 (Randell CFLS). Will furnish CIF quote foreign port for export identity preserved soybeans, and corn either containerized or in bulk cargo. Also active in agri-business consulting to the soybean production and marketing industry.

Cedar Falls 50613 — MIDWEST SOYA INTERNATIONAL INC., 714 W. First. Ph. 319-277-6121. Telex 465650. Exporting quality, identity-preserved soybeans, bulk or bagged containerized shipment, quality soybean meal and soybean seed for planting. Also exporters of commercial grade shipments of soybeans and corn. Export facility at Clear Lake, IA.

Cedar Falls 50613 — SOYPRO INTERNATIONAL, INC., 314 Main St. Ph. 319-277-4700. Telex 465653. Specialized consulting services devoted solely to the oilseed industry. Market analyses, feasibility reports, project planning, also project financing in most countries of the world. Plant design, engineering, construction management and start-up for soybean processing, soy protein products, soy foods, soy milk, and edible oil refining facilities. Quality control facilities and systems, personnel training, marketing and product utilization, market hedging and trading, materials and financial control systems, general management worldwide.

KANSAS

Kansas City 66115 — T. PAUL DWYER, Engineers, 1401 Fairfax Trafficway. Ph. 913-342-4656. Planning, design and supervision. Grain handling and storage, soybean processing, river and marine facilities.

MINNESOTA

Minneapolis 55402 — EXPERIENCE INC., 1930 Dain Tower. Ph. 612-333-5231. Branch office: 1725 K Street NW, Washington, DC 20006. Ph. 202-659-3864. EXPERIENCE® in all phases of agribusiness. Specialists in soybean products, processing, marketing, feasibility studies and market evaluations.

NEW JERSEY

Boonton 07005 — PETER KALUSTIAN ASSOCIATES INC., 239 Reserve St. Ph. 201-334-3008 Management consultation and engineering activities in the food, light chemical, and related fields. Special emphasis given to refining, hydrogenation, winterizing, deodorizing, production of edible and specialty fats, fatty acids and chemical derivatives. New facilities or expansion of present equipment. Deodorizer expansion with heat economy.

Summit 07901 — PULVERIZING MACHINERY, div. of MikroPul Corp., 84 Chatham Rd. Ph. 201-273-6360.

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO. Ph. 513-773-3420. Telex 288009. Cost estimates, plant layout and process equipment design.

PENNSYLVANIA

Coraopolis 15108 — THE CHESTER ENGINEERS, Div. of Mesta Machine Co., 845 Fourth Ave. Ph. 412-262-1035. Environmental consulting engineering.

TENNESSEE

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Ph. 901-362-3267. Engineering consultant in solvent extraction, oil degumming, vacuum distillation of miscella, high protein systems and overall plant expansion.

Needed: deodorizer distillates

We have a continuing need for distillates from the deodorization of unsaturated vegetable oils, such as soybean, cottonseed, safflower and sunflower. Value depends on stigmasterol and tocopherol content. If you are now deodorizing these types of oil, or are planning a new plant, we can provide you with information on the various kinds of deodorizers and distillate recovery systems and advise you about the effects of deodorizer operating conditions (temperature, time, vacuum and stripping steam). Contact Robert Winters, Henkel Corporation, 4620 West 77th Street, Minneapolis, Minnesota 55435, telex 29-0472. Phone (612) 830-7810.

Henkel Corporation

Henkel

Memphis 38116 — PSI PROCESS SYSTEMS INC., 2930 Airways Blvd. Ph. 901-345-8760. Process design, feasibility studies, detailed engineering, procurement, construction and start-up services for complete plants.

WASHINGTON

Seattle 98109 — WESMAR INDUSTRIAL SYSTEMS DIV., 905 Dexter Ave. N., Box C 19074. Ph. 206-285-2420. Telex 329 509. Material handling.

BRAZIL

30.000 Belo Horizonte — ITALTECNICA LTDA. ASSESSORIAS E PROJETOS INDUSTRIALS, Rua Piaui 1. 465 conj. 108. Ph. 221.0090, 221.9947, 221.9022. Telex: 031-1765 TTNE BR. Established the first soybean industry products in Brazil.

Rio de Janeiro, RJ — THIONVILLE INSPETORA DE CARGAS E ANILISES LTD., Alcantara Machado 36 S/LOJA-SALAS 208/209. Ph. 233-6899. Telex 2123802. Offices: Sao Paulo, Santos, Parangua, Porto Alegre and Rio Grande. Brazilian companies will provide inspection, weighing, sampling and analyses of all grains, meals, oils, tallow, sugar and molasses.

CANADA

Mississauga, Ont., L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Complete engineering, process research and development, process piloting, custom analysis in modern research laboratory and pilot plant with all unit operations for pre-treatment, solvent extraction, oil refining and protein isolation.

Saskatoon, Sas., S7N 2R4 — POS PILOT PLANT CORP., U of S Campus. Ph. 306-665-7791. Telex: 074-2883 POS SKN. Research and development facilities available on fee-for-use basis. Pilot scale processing equipment and associated laboratory support.

Toronto, Ont., M5H 3B7 — KAPPELE, WRIGHT & MacLEOD LTD., 155 University Ave. Ph. 416-863-1822. Telex 06-219642. Oil extraction and refining plants. Process flow sheets, layouts, materials handling, economic studies and project supervision

WEST GERMANY

2000 Hamburg 11 — THIONVILLE SURVEYING GMBH, Schaartor 1. Ph. 040 36-75-39. Telex 0 212 216.

NETHERLANDS

Rotterdam 3007 — THIONVILLE SURVEYING COMPANY B. V., Vierhavenstraat 40, Postbox 6022. Cable: "SUPERVILLE." Telex 27 254. Ph. 774155. Office specializes in inspection, weighing, sampling of grains, meals and oils.

ENGINEERING SERVICES

ALABAMA

Birmingham 35201 — THE RUST ENGINEERING CO., 1130 S. 22nd, P.O. Box 101. Ph. 205-254-4000. Complete design and construction of seed, oil and fatty acid processing plants from solvent extraction through deodorization to stearic oleic acid separation using Lurgi processes.

ILLINOIS

Champaign 61820 — CHARLES ISDALE & ASSOCIATES, INC., Country Fair Box 3226, Ph. 217-351-3117. Registered professional engineer. Oilseed and specialty extraction plants, solvent recovery, desolventizing heat sensitive materials. Process, energy, safety and economic evaluation. Brochure provided upon request.

Chicago 60601 — GLOBE ENGINEERING CO., 222 N. Dearborn St. Ph. 312-431-6800. Telex 270116 GSI INC CGO. Plant layout, engineering and architectural design and construction management.

Mt. Zion 62549 — M&E ENGINEERING SERVICE INC., P.O. Box 309, Ph. 217-864-2643. Engineering design and construction of agricultural-chemical processing; vegetable oil extraction, vegetable oil processing, energy economies, modification and design for E.P.A. compliance

Chicago 60606 — DAVY McKEE CORP., 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254562. Cable ARMAC, CHICAGO. Full range of services from feasibility studies through complete plants involving single source responsibility on a worldwide basis. Grain handling and storage; solvent extraction; proteins; feed mills; oil processing; fatty acids and fatty chemicals; packaging and warehousing; utilities and services; environmental engineering. Not an equipment supplier so can offer owner unbiased recommendations for best equipment selection.

Chicago 60606 — WURSTER & SANGER INC., 222 W. Adams, Ph. 312-977-4890. Complete plant design and consultation for oil, fat glycerine and protein production.

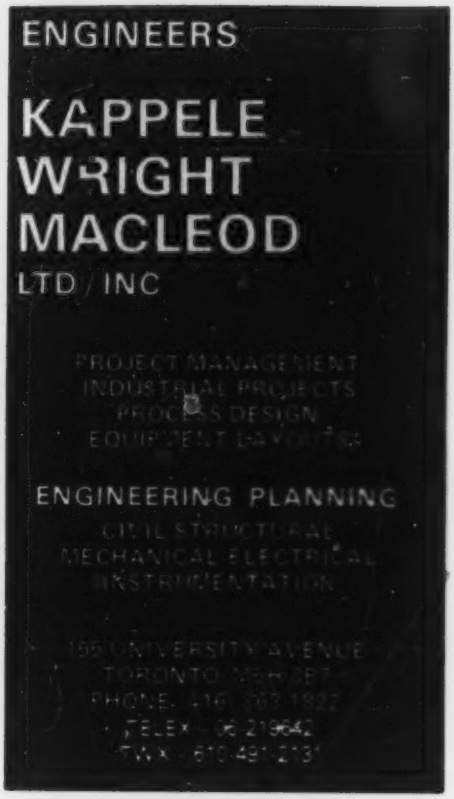
Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. Registered professional engineer. Soybeans to derivatives. Flows, costs, markets, applications, soybean and cereal grain processing, engineering services, protein and lecithin plants and complete plants.

Decatur 62525 — MYERS ENGINEERS, P.O. Box 1493. Ph. 217-429-2704. Solvent oil extraction and refining plants. Process evaluations, economic studies, layouts, flow sheets, air and water pollution studies. Chemical, mechanical, civil and structural engineering for total project design.

Des Plaines 60016 — THE AUSTIN CO., Process Div., 2001 Rand Rd. Ph. 312-694-4300. Surveys, reports, complete plant design, equipment and construction.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Complete design of solvent extraction, oil processing, physical refining, deodorizing and fatty acid plants.

Park Ridge 60068 — CREST PRODUCTS INC., 1411 Peterson Ave. Ph. 312-774-8391. Soybeans, oilseeds and specialty soy products — all phases planning, plant layout and design. Process and product improvement, maintenance, training of personnel, bulk storage, materials handling, etc.



Export Shippers For . . .

QUALITY SOYBEANS

Ask For Quotations Delivery
East or West Coast or Gulfports

MICO INC.

Gen. Mgr. - Wes Dunlap

Bloomington, Illinois

Box 1508 Phone (309) 662-9344
TWX (510) 352-2171

IOWA

Cedar Falls 50613 — SOYPRO INTERNATIONAL, INC., 314 Main Street. Ph. 319-177-4700. Telex 465653. Specialized engineering services devoted solely to the oilseed industry since 1963. Planning, design, construction management and start-up of oilseed processing plants, soy protein plants, soy milk plants. Project financing in most countries of the world. Engineering specialties include all phases of materials handling, storage, processing, quality control and plant environmental control facilities.

Des Moines 50307 — ELECTRICAL ENGINEERING & EQUIPMENT CO., 1201 Walnut St. Ph. 515-282-0431. Layout, design and fabrication of standard and custom-built soybean conveyor systems.

KENTUCKY

Louisville 40222 — AMERICAN DRYNAMICS, INC., P.O. Box 22588, Ph. 502-425-6716.

MASSACHUSETTS

Natick 01760 — ALPINE AMERICAN CORP., 5 Michigan Dr. Ph. 617-655-1123. Telex 94-84-50.

MINNESOTA

Minneapolis 55440 — BUHLER-MIAG INC., P.O. Box 9497. Ph. 612-545-1401. Full engineering service in modernizing or designing complete mills of all kinds.

Minneapolis 55440 — CROWN IRON WORKS CO., 1229 Tyler St. NE, P.O. Box 1364. Ph. 612-781-3101. Complete engineering services for solvent plants, preparation equipment and soybean dehulling. Solvent recovery systems.

Minneapolis 55427 — EXTRON CO., 8039 Lewis Rd. Ph. 612-544-4197. Can provide the industry with DC motor controls and engineered electronic controls systems.

Minneapolis 55423 — PROFORM INC., 1500 E. 78th St. Ph. 612-861-7191. Plants at Paducah, KY; St. Paul, MN; and Sequin, TX. Innovative design and engineering of transport covering systems fabricated of fiberglass reinforced plastics.

MISSOURI

St. Louis 63101 — R.W. BOOKER & ASSOCIATES INC., 1139 Olive St. Ph. 314-421-1476. Chemical, mechanical, electrical and civil engineering consultants for soybean processing plants; site selection; economic analysis of present and projected operations.

Sikeston 63801 — R. CLINTON CONSTRUCTION CO., Miner Rd. Ph. 314-471-1340. Design and construction of soybean elevators.

NEW JERSEY

Hasbrouck Heights 07604 — LURGI CORP., 377 Rt. 17. Ph. 201-288-6450. Telex 135111. Subsidiary of Lurgi Companies, Gervinusstrasse 17-19, Frankfurt/Main, Germany. Design and construction of chemical, petrochemicalmetallurgical plants.

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 NEUMUNZ LEON. Engineering service and complete layouts for oil mills, refining and hardening plants.

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO. Ph. 513-773-3420. Telex 288009. Complete engineering service for preparation and solvent extraction plants.

PENNSYLVANIA

Coraopolis 15108 — THE CHESTER ENGINEERS, Div. of Mesta Machine Co. 845 Fourth Ave. Ph. 412-262-1035. Environmental Consulting Engineering.

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Equipment installation. Processing and materials handling system engineering.

TENNESSEE

Memphis 38101 — DABNEY-HOOVER SUPPLY CO., P.O. Box 692, 61 W. Georgia. Ph. 901-523-8061. Designs for handling and storage facilities.

Memphis 38109 — HAGAN MFG. CO., 1598 Texas St. Ph. 901-948-2683.

Memphis 38117 — INDUSTRY GENERAL CORP., 5384 Poplar, Suite 500. Ph. 901-682-3314. Construction contractors and engineering services.

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Ph. 901-362-3267. Engineering and sales of equipment for solvent extraction plants, preparation buildings, high protein meal equipment. Solvent recovery systems.

Memphis 38116 — PSI PROCESS SYSTEMS INC., 2930 Airways Blvd. Ph. 901-345-8760. Process design, feasibility studies, detailed engineering, procurement, construction and start-up services for complete plants.

TEXAS

Dallas 75205 — DU-VAL I.F.T. CORP., 5121 McKinney. Design of complete oil mills, preparation room equipment, solvent extraction, prepress operations and meal preparation. Export only.

WISCONSIN

Green Bay 54301 — FEECO INTERNATIONAL INC., Rt. 1, 3913 Algoma Rd. Ph. 414-468-1000. Telex 263456.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31824.

BRAZIL

30.000 Belo Horizonte — ITALTECNICA LTDA. ASSESSORIAS E PROJETOS INDUSTRIAIS, Rua Piaui 1.4 65 conj. 108. Ph. 221.0090, 221.9947, 221.9022. Established the first soybean industry products in Brazil.

CANADA

Mississauga, Ont., L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Complete design of extraction, refining, hydrogenation, hydrogen gas generation and packaging plants.

ENGLAND

Hull — SIMON—ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Design and manufacture of seed preparation, extraction and oil processing plants incorporating screw presses, solvent extraction plant, batch and continuous refining, deodorizing and hydrogenation installations.

GERMANY

4000 Duesseldorf — FRANZ KIRCHFELD GmbH KG, Koenigsallee 17. Ph. 0211 8398450. Telex: 08584999. Equipment, planning, turn-key offers.

D-6000 Frankfurt am Main — LURGI UMWELT UND CHEMOTECHNIK GmbH, Gervinusstr. 17-19, Postfach 11 91 81. Also Lurgi Corp., 377 Rt. 17, Hasbrouck Heights, NJ 07604. Complete process engineering for the chemical process industries using our proprietary technique.

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH, P.O. Box 50-01-60, Friedensallee 44. Ph. 40/39-11-96. Telex: 214489 or 213452. Manufacturer of cracking mills and flaking mills for soybeans and all other oil seeds.

2000 Hamburg 76 — EXTRAKTIONSTECHNIK, Gesellschaft fur Anlagenbau M.b.h., P.O. Box 76 03 69. Ph. 040-220-1261. Complete design and sale of equipment for solvent extraction plants, complete refineries, hydrogenation and allied fields of oil and seed treatment.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859. Design and supply of equipment for the vegetable oil industry.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29.

EXPORTERS

ALABAMA

Guntersville 35976 — CONTINENTAL GRAIN CO. Ph. 205-582-5614. Main office: 277 Park Ave., New York, NY.

Mobile 36601 — PAUL A. BOULO INC., 711 Commerce Bldg., 118 N. Royal St. P.O. Box 484. Also P.O. Box 494, Pascagoula, MS 39567; P.O. Box 1283, Pensacola, FL 32596; and P.O. Box 4087, Panama City, FL 32401. Freight forwarding.

ARKANSAS

Helena 72342 — RICELAND FOODS. Fully refined soy oil, meal, lecithin, salad oil, cooking oil and shortening.

Osceola 72370 — CARGILL INC., P.O. Box 528. Ph. 501-563-5263. Crude and degummed soybean oil and meal.

Stuttgart 72160 — RICELAND FOODS, P.O. Box 926, 2120 Park Ave. Ph. 501-673-5500. Soybeans, fully refined soy oil, soybean varieties, soybean

meal, salad oil, cooking oil, shortening, soybean meal pellets and soybean lecithin.

CALIFORNIA

Lafayette 94549 — DURKEE FOODS DIV. of SCM Corp. 3706 Mt. Diablo Blvd. Ph. 415-283-1101. Once refined and fully refined soy oil, salad oil, cooking oil, shortening.

San Francisco 94111 — GETZ BROS. CO. INC., 640 Sacramento St. Ph. 415-772-5500. Soybean meal, breakfast foods, salad oil, salad dressing, cooking oil, mayonnaise, soy protein concentrates and soy protein isolates.

San Francisco 94111 — MARWOOD CO., One Maritime Plaza. Ph. 415-986-6660. Telex WU 34-0910. Soy oil (crude, degummed, once refined and fully refined), salad and cooking oil.

San Francisco 94111 — PVO INTERNATIONAL INC., World Trade Center, No. 130. Processed soybeans and oil.

Sunnyvale 94086 — SHEDD'S FOOD PRODUCTS, 1484 Kifer Rd. Ph. 408-739-8800. Salad dressing, margarine, mayonnaise and shortening.

CONNECTICUT

Essex 06426 — INTERCONTINENTAL ASSOCIATES INC., P.O. Box 396. Ph. 203-767-0224. Cable INTERCONT. Soups, seafood specialties, spices, jells, bouquet garni, sauces, gourmet specialties and "one ounce" cola.

Stamford 06904 — LOUIS DREYFUS CORP., 24 Richmond Hill Ave. Ph. 203-357-8444. Telex 996315 or 996316. Branch offices: Chicago, Curran and Pekin, IL; New Orleans and Pascgoula, LA; Baltimore, MD; Guckeen, MN; Minneapolis, MN; Kansas City, MO; Portland, OR; and Fort Worth, TX.

FLORIDA

Miami 33127 — CADUR TRADING CORP., 1037 NW 21st Terrace. Ph. 305-635-0000. Telex 518952. Fully refined soy oil and shortening.

GEORGIA

Atlanta 30301 — GOLD KIST INC., P.O. Box 2210. Ph. 404-393-5030. Telex 54-2338 and 70-8404. Soybean meal and oil. M.A. Stimpert, mgr. International Div.

ILLINOIS

Bloomington 61701 — AG-WORLD EXPORTS, 2310 E. Oakland Ave., Suite 12. Ph. 309-662-9371. Telex: 510-352-2171 MICO, INC. Agricultural equipment and food products.

Bloomington 61701 — MICO INC., P.O. Box 1508. Ph. 309-662-9344. Grain and seed exporter of soybeans.

Bloomington 61701 — RALSTON PURINA CO., Olive & Euclid Sts., P.O. Box 517. Ph. 309-829-1261. Soybean meal.

Chicago 60603 — CARGILL INC., 135 S. LaSalle St. Ph. 312-855-2914. Once refined soybean meal and oil.

Chicago 60647 — DURKEE FOODS DIV. of SCM Corp., 2333 Logan Blvd. Ph. 312-384-2500. Once refined and fully refined soy oil, salad oils cooking oil, and shortening.

Decatur 62525 — ARCHER DANIELS MIDLAND CO., P.O. Box 1470. Ph. 217-424-5453. Offices: Galesburg and Granite City, IL; Fredonia, KS; Mankato, MN; and Lincoln, NE. Degummed, once refined, and fully refined soybean meal and oil, flour, flakes and grits, lecithin, salad oil, cooking oil, shortening oil, margarine oil, meat analogs, sausage binders and textured soy proteins.

Decatur 62525 — ROSS & ROWE, Div. of Archer Daniels Midland Co., P.O. Box 1409. Ph. 217-424-5804. Lecithin.

Decatur 62525 — A.E. STALEY MFG. CO., P.O. Box 151. Ph. 217-423-4411. Soybean meal, industrial oils, fully refined and hydrogenated soybean oils, soy flour, soy flakes and grits, lecithin, soy whipping agents, seasonings, soy sauce, soy protein concentrates and textured vegetable protein concentrates and textured soy proteins.

Decatur 62525 — TABOR GRAIN CO., P.O. Box 1470. Ph. 271-424-5440. Telex 250119. Soybeans and soybeans for cooking.

Elgin 60120 — SHEDD'S FOOD PRODUCTS, 51 N. State St. Ph. 312-742-0226. Margarine, shortening, salad oils and cooking oils.

Farmer City 61842 — FARMER CITY GRAIN CO., 201 W. North St. Ph. 309-928-2185. Processors and shippers of high quality certified seed grains. SRF and standard varieties of soybean seed.

Farmer City 61842 — PACIFIC GRAIN CO., 201 W. North St. Ph. 309-928-2185. Telex 406-447 FARM INT FACY. Supplier of corn and soybeans to both domestic and export markets. Specializing in quality grain.

Franklin Park 60131 — FLAVOR TREE FOODS INC., 2645 Rose St. Ph. 312-455-4002. Snacks and confections.

Kankakee 60901 — BUNGE EDIBLE OIL CORP., P.O. Box 765. Ph. 815-939-3631. Gen. office; P.O. Box 192. Salad oil, cooking oil, shortening and margarine.

Melrose Park 60160 — FEARN SOYA FOODS, div. of Richards Foods Corp. Ph. 312-345-2335. Flour, flakes and grits, lecithin, soybeans for cooking, health foods, blended foods, breakfast foods, flour mixes, soy protein concentrates and isolates. Consumer packages only. Soya Powder, Soya Granules, SOY-O Baking Mixes, Protein Supplements based on soy, liquid lecithin, etc.

Taylorville 62568 — CONTINENTAL GRAIN CO. Ph. 217-824-3385. Main office: 277 Park Ave., New York, NY.

INDIANA

Fort Wayne 46802—CENTRAL SOYA, 1300 Fort Wayne National Bank Bldg. Ph. 219-425-5100, Telex

232-410. Once refined and fully refined vegetable oil, soybean meal, flour, flakes and grits, lecithin, salad oil, cooking oil, margarine oil, shortening, sausage binders, soy protein concentrates, textured soy flours, textured soy concentrates, soybeans, corn, livestock and poultry feeds.

Lafayette 47902— RALSTON PURINA CO., 1503 Wabash Ave., P.O. Box 119. Ph. 317-423-1511. Soybean meal.

IOWA

Cedar Falls 50613 — IOWA LIVESTOCK EXPORTS Div. of IOWA SWINE EXPORTS CORP., P.O. Box 865, 209 Frankling St. Ph. 319-277-6121. Telex: 465642 (Randell CFLS). Work to enhance the profitability of converting soybean meal into meat, milk and eggs.

Cedar Falls 50613—MIDWEST SOYA INTERNATIONAL INC., 714 W. First. Ph. 319-277-6121. Telex 465650. Exporting quality, identity preserved soybeans, bulk or bagged containerized shipments, quality soybean meal and soybean seed for planting. Also exporters of commercial grade shipments of soybeans and corn. Export facility at Clear Lake, IA.

Hudson 50643—AGRICULTURAL EXPORTS INC. Ph. 319-988-4593. Cable AGRIPORT. Telex: 46531. Soybeans for seed or food purposes, bulk or bagged. Vegetable and field varieties.

Hudson 50643—EDIBLE SOY PRODUCTS INC., 711 Seventh St. Ph. 319-988-3221. Health foods and roasted soybeans.

Iowa Falls 50126—RALSTON PURINA CO., Highway 65, S., P.O. Box 1020. Ph. 515-648-2591. Soybean meal.

Muscatine 52761—GRAIN PROCESSING CORP., 1600 Oregon St. Ph. 319-264-4710. Telex 468497. Soy protein isolates.

KANSAS

Overland Park 66210—FARMERS EXPORT CO., 10880 Benson Dr. Ph. 913-341-6880. TWX 910-749-6491. Telex 42 62 69. Soybeans.

KENTUCKY

Louisville 40201—DURKEE FOODS DIV. of SCM Corp., 1303 S. Shelby St. Ph. 502-635-7441. Once refined and fully refined soy oil, salad oil, cooking oil and shortening.

Louisville 40217—RALSTON PURINA CO., 2441 S. Floyd St., P.O. Box 17124. Ph. 502-637-4761. Soybean meal.

LOUISIANA

New Orleans 70112—C.B. FOX CO., 1620 First National Bank of Commerce Bldg. Ph. 504-588-9211. Telex 58216. Teletype 810-951-6215. Exporter of grain, soybeans and soybean products.

New Orleans 70150—W.L. RICHESON & SONS INC., 442 Canal St., P.O. Box 50248. Ph. 504-529-5641. Telex 58256. TWX 810 951 6318. Ocean freight broker and forwarding agent. Contracting ocean space; stock keeping at elevator; complete ocean documentation; and weighing.

. . . which soybean fields are planted with seed from Farmer City. The uniform stands, vigorous growth, and strong root systems promise bumper yields at harvest. Selected top yielding varieties and the gentlest, most efficient processing facilities in existence combine to give seed from Farmer City the extra quality farmers want.

For higher crop yields, be sure you plant or sell quality seed from Farmer City. Write or call for information.

Farmer City Grain Co.
Subsidiary of Tabor Grain Co.
Farmer City, Illinois 61820
Telephone (309) 928-2185
Also available–Nature's Friend Wild Bird Food

New Orleans 70130—SHIPCO INC., 624 Gravier St. Ph. 504-581-1463. Also Cotton Exchange Bldg., Houston, Tx. 77002. International freight forwarding, expediting and documentation services.

Opelousas 70570 — LOU ANA FOODS INC., P.O. Box 591, Ph. 318-948-6561. Telex: 58-6645 LAF OPLS. Once refined and fully refined soy oil.

MICHIGAN

Detroit 48238—SHEDD'S FOOD PRODUCTS, 14401 Dexter Blvd. Ph. 313-868-5810. Margarine, shortening, salad oils and cooking oils.

Lansing 48910—INARI, LTD., 2331 Forest Road. Ph. 517-882-3323. Telex 229-440 MICH AGRI LSG. Export quality identity preserved soybeans, whole roasted soynuts, salted, unsalted and flavored.

MINNESOTA

Minneapolis 55440—BARZEN OF MINNEAPOLIS INC., 455 Harrison St. NE. Ph. 612-379-2060. Telex 29-0611. Exporter of seed soybeans, seed grains, other oilseeds, legumes and grasses, all varieties.

Minneapolis 55440—CARGILL INC., P.O. Box 9300. Ph. 612-475-7575. Handles soybeans, soybean meal, soy flour and oil for export.

Minneapolis 55344 — DAWSON FOOD INGREDIENTS, INC. Ph. 612-944-6696. Telex: 290473. Soy grits, soy flour, textured soy flour, isolated soy protein, spun protein fibrils and meat analogs.

JULIUS VAN ROOSENDAAL

International Brokers
Since 1890

You are invited to call us anytime for up-to-the-minute market information

Call Julius

Linseed oil
Edible oils
Soyabeans

Telex: 21 496, 21 498, 22 402
Telephone: 20 59 55
Cables: Julius Rotterdam
Address: Rotterdam, P. O. Box 4131

Minneapolis 55402—MALT-O-MEAL CO., 1700 Cargill Bldg. Ph. 612-338-8551. Roasted soy nuts, unsalted, salted, barbecue and garlic flavored.

Minneapolis 55402—PEAVEY CO., 730 Second Ave. S. Ph. 612-370-7551. Telex 290125.

Minneapolis 55402—THE PILLSBURY CO., Feed Ingredient Div., Bloomington, MN. Ph. 612-330-8610. Telex 29-0813. Exporter of cottonseed, linseed, soybean meals, and vegetable oils as well as other feed ingredients.

Minneapolis 55435—SCHOUTEN INTERNATIONAL INC., 6750 France Ave. S. Ph. 612-920-7700. Telex 290815. Exporters of soybeans and meal, grains, feed ingredients in general.

Minneapolis 55435—WELLENS & CO., INC., 6600 France Ave. S. Ph. 612-925-4600. Telex 29-0214. Merchandisers and exporters of soybean meal and feed ingredients, including animal proteins, both in bags and bulk.

MISSOURI

Carthage 64836—CARTHAGE CREAMERY CO., P.O. Box 422. Ph. 417-358-4046. Margarine.

Kansas City 64120—RALSTON PURINA CO., 2334 Rochester. Ph. 816-483-9888. Soybean meal.

Mexico 65265—M.F.A. GRAIN MARKETING DIV., 400 E. Holt St., P.O. Box 39. Ph. 314-581-4195. Telex 1-910-760-1527. Exporters of soybean meal, oil and lecithin.

St. Louis 63188—RALSTON PURINA CO., Checkerboard Square. Ph. 314-982-2511. Telex 447620. Degummed soybean meal, oil, flour, flakes and grits, lecithin, soy protein isolates, textured soy protein, fiber textured products and structured protein isolate.

NEBRASKA

Omaha 68102—SHEDD'S FOOD PRODUCTS, 108 S. Ninth St. Ph. 402-341-7506. Margarine, shortening, salad oils and cooking oils.

NEW JERSEY

Somerset 08873—CLEARY TRADING CORP., 1049 Somerset St. Ph. 201-247-8000. Lecithin.

NEW YORK

New York 10005—BALFOUR-MACLAINE INTERNATIONAL LTD., Wall Street Plaza. Ph. 212-425-2100. Telex (domestic) 126985, (international) RCA 232072. Crude, degummed, once refined, fully refined soybean oil, cottonseed oil, tallow, lard.

New York 10005—BUNGE CORP., One Chase Manhattan Plaza. Ph. 212-943-6600. Branch offices: Osceola and Pine Bluff, AR.; Albany, Chicago, Cairo and Shawneetown, IL.; Hutchinson, KS.; Destrehan, LA.; Duluth and Minneapolis, MN.; Greenville, MS.; Portland OR.; and Fort Worth, TX. Soybeans, meal and crude, degummed, once refined and fully refined soy oil.

New York 10048—A.E. CHEW & CO. INC., One World Trade Center, Suite 1967. Telex 222715. Fully

refined soy oil bulk, drums and packaged, breakfast foods, cookies, crackers, salad oil, mayonnaise, cooking oil, seasonings, soy sauce, soybean meal and partially refined oil.

New York 10017—CONTINENTAL GRAIN CO., 277 Park Ave. Ph. 212-826-5100. Plants at Guntersville, AL.; Taylorville, IL.; and Cameron, SC. Grain merchants and exporters.

New York 10017—C. ITOH & CO. (AMERICA) INC., 270 Park Ave. Ph. 212-953-5237.

New York 11570 — DURKEE FOODS DIV. of SCM Corp. 100 Merrick Rd., Rockville Center. Ph. 516-536-3322. Once refined and fully refined soy oil, salad oil, cooking oil and shortening.

New York 10013—K.I.D. INC., 395 Broadway. Ph. 212-966-2595/6. Various soybean products.

New York 10017—MARUBENI AMERICA CORPORATION, 200 Park Ave. Ph. 212-973-7181. Exporter of grains and oilseed products.

New York 10017—TOSHOKU AMERICA INC., 551 5th Ave. Ph. 212-661-5400. Telex W.U. 12389 or 127579. Parent company: Toshoku Ltd., Shin-Muromachi, Bldg., No. 4, Nihonbashi Muromachi 2-chome Chuo-ku, Tokyo, Japan. Trading foreign countries—especially Europe, Taiwan and Japan.

Scarsdale 10583—HASSELMAN BROKERAGE CO. INC., Harwood Bldg. Ph. 212-234-8000, 914-725-3553. Telex 137452. Exporters crude, degummed, once refined and fully refined soy oil, soybean meal and soapstocks.

Woodside, L.I. 11377—AMERICAN LECITHIN CO. Ph. 212-274-4350. Telex: 54-2238. Lecithin.

NORTH CAROLINA

Raleigh 27611—RALSTON PURINA CO., 1400 S. Blount St., P.O. Box 26987. Ph. 919-828-4491. Soybean meal.

Raleigh 27604—SUGGS & CO. LTD., P.O. Box 11205. Ph. 919-828-1954. Telex 579-365. Crude and fully refined soy oil, salad oil and cooking oils. Bulk soybeans.

Selma 27576—GURLEY'S INC., P.O. Box 388. Ph. 919-965-2303, (N.C.) 800-672-8131, (U.S.) 800-334-9631. Cable GURLEY. Telex: 802532. Soybean meal, oil, cake and soybeans for cooking.

OHIO

Cleveland 44115—DURKEE FOODS DIV. of SCM Corp., 900 Union Commerce Bldg. Ph. 216-771-5121. Once refined and fully refined soy oil, salad oil, cooking oil and shortening.

Columbus 43216—CAPITAL CITY PRODUCTS CO., div. of Stokely Van Camp Inc., P.O. Box 569. Ph. 614-299-3131. Telex 245 494. Fully refined soy oil, salad oil, cooking oil, shortening and margarine.

PENNSYLVANIA

Bryn Mawr 19010—WOODWARD & DICKERSON INC., Woodward House, 937 Haverford Rd. Ph. 215-527-5200. Telex 084-5244. TWX 510-622-3381. Crude, degummed, once refined and fully refined soybean meal, cake and oil.

SOUTH CAROLINA

Cameron 29030—CONTINENTAL GRAIN CO. Ph. 803-823-2211. Main office: 277 Park Ave., New York, NY.

Greenville 29602—SHEDD'S FOOD PRODUCTS, P.O. Box 424. Ph. 803-271-9340. Margarine, shortening, salad oils and cooking oils.

TENNESSEE

Chattanooga 37410—BUNGE EDIBLE OIL CORP., P.O. Box 7068. Ph. 615-821-1545. Salad oil, cooking oil, shortening and margarine.

Memphis 38101—CARGILL INC., Domestic Soybean Crushing Div. Ph. 901-775-3700. Crude and degummed soybean meal and oil.

Memphis 38112—RALSTON PURINA CO., 2895 Jackson Ave. Ph. 901-327-8447. Crude and degummed soybean meal, oil and lecithin.

TEXAS

Dallas 75205—POLSER EXPORTS INC., P.O. Box 8481. Ph. 214-369-5825. Telex 73-2341. Salad dressing and mayonnaise.

Dallas 75207—SHEDD'S FOOD PRODUCTS, 1729 Irving Blvd. Ph. 214-741-5481. Margarine, shortening, salad oils and cooking oils.

Ft. Worth 73101—BUNGE EDIBLE OIL CORP., P.O. Box 265. Ph. 817-625-2331.

Houston 77001—ANDERSON, CLAYTON & CO., P.O. Box 2538. Ph. 713-651-0641. Degummed soy oil, soybean meal, salad oil, salad dressing, cooking oil, shortening and margarine.

VIRGINIA

Chesapeake 23324—CARGILL INC., P.O. Box 7506. Ph. 804-545-8461. Crude and degummed soybean meal and oil.

INDIA

Bombay 400 021 — SCHOKHI INDUSTRIALS PVT. LTD., 143, Jolly-Maker Chambers No. 2, 14th Fl., 225, Nariman Point. Ph. 231320, 231397, 232208. Telex: UTPADAN (011) 3078. Cables: UTIPADAN. Exporters of soybean meal to the Far East and Middle East markets.

Uttar Pradesh—VED BRAT & CO., Subsidiary of Reg. Soya Protein Ltd. Office: 39-C Prem House, Connaught Place, New Delhi-1, India. Ph.352761 or 615100. Exporter of textured vegetable protein and protein isolates.

EXPORT AND IMPORT WAREHOUSING & HANDLING

GEORGIA

Savannah 31408—SOUTHLAND OIL TERMINAL CO., Savannah State Docks, P.O. Box 7390. Ph. 912-964-1811. Export warehousing, handling and drumming of edible oils. Export and import.

LOUISIANA

Lake Charles 70602—PORT OF LAKE CHARLES, P.O. Box AAA. Ph. 318-439-3661. Telex 502449. Special handling facilities.

New Orleans 70130—INTERNATIONAL-MATEX TANK TERMINALS, 9th Fl. Suite, 321 St. Charles Ave. Ph. 504-586-8300. Telex 584191; New York office: 120 Broadway, Rm. 2850. Ph. 212-333-2884. Telex: 710-581-2700. Deep water terminals at Avondale and St. Rose, New Orleans; Mobile, AL; Karachi, Pakistan; Chittagong, Bangladesh; and Ulsan, Korea. Storage, drumming canning vegetable oils.

New Orleans, LA 70160 — PORT OF NEW ORLEANS, P.O. Box 60046. Ph. 504-522-2551. Telex 58-7496. Cable CENTROPORT.

OHIO

Cincinnati 45203 — THE EARLY & DANIEL CO., 525 Carr St. Ph. 513-621-0662. Telex 214500. Plants at Mt. Carmel, IL; Indianapolis, IN; Louisville, KY; Cincinnati, Mansfield, and Portsmouth, OH. Grain terminals, handling merchandising and storage.

TEXAS

Galena Park 77547 — AMERADA HESS CORP., P.O. Box 52. Ph. 713-453-6301. Soy oil storage.

Houston 77001 — PORT OF HOUSTON, P.O. Box 2562. Ph. 713-225-0671. TWX 910-881-5787. Soybean meal handled in bulk for direct loading to vessel. Deliveries from hopper bottom railroad cars. One-million square feet of shipside warehousing for bagged shipments available, as well as container stuffing facilities.

Houston 77027 — ROBERTSON TERMINALS INC. 2000 West Loop S., Suite 1800. Ph. 713-623-0000.

FIELD WAREHOUSING

CALIFORNIA

Los Angeles 90017 — LAWRENCE SYSTEMS INC., 700 S. Flower St. Ph. 213-626-5431.

ILLINOIS

Chicago 60601 — LAWRENCE SYSTEMS INC., 108 N. LaSalle St. Ph. 312-236-9333.

NEW YORK

New York 10017 — LAWRENCE SYSTEMS INC., 122 E. 42nd St., Suite 1415. Offices in all principal cities.

TENNESSEE

Memphis 38103 — COLLATERAL CONTROL CORP., 2105 First Tennesee Bank Bldg., 165 Madison Ave. Main office: 444 Lafayette Rd., St. Paul, MN 55101. Also offices: Anchorage, AK; Fresno, Los Angeles and San Francisco, CA; Denver, CO; Ft. Lauderdale and Tampa, FL; Albany and Atlanta, GA; Honolulu, HA; Boise, ID; Chicago, IL; Des Moines, IA; New Orleans, LA; Waltham, MA; Southfield, MI; Kansas City, MO; Omaha, NE; Buffalo, NY; Cincinnati, OH; Oklahoma City, OK; Portland, OR; Wayne and Pittsburg, PA; Charlotte, NC; Amarillo, Dallas and Houston, TX; Richmond, VA; Green Bay, WI; and Toronto, Ont., Canada.

FUTURES MARKETS

ILLINOIS

Chicago 60604 — CHICAGO BOARD OF TRADE, 141 W. Jackson. Ph. 312-435-3626. Visitors gallery 5th floor. Fourteen commodities traded.

Chicago 60604 — MIDAMERICA COMMODITY EXCHANGE, 175 W. Jackson Blvd., Suite A220. Ph. 312-435-0606. Commodity futures. Opportunity to trade/hedge in 1,000-bushel lots of soybeans and other grains.

MINNESOTA

Minneapolis 55415 — MINNEAPOLIS GRAIN EXCHANGE. A grain market for all grains including soybeans -- both futures and cash market. Ph. 612-338-6212.

MARKET ANALYSIS

ILLINOIS

Chicago 60604 — ACLI INTERNATIONAL COMMODITY SERVICES INC., 141 W. Jackson Blvd. Ph. 312-987-4400. Main offices in New York, Chicago, London. Other offices in Geneva, Hamburg, Zurich and Hong Kong. Complete hedging programs, fundamental technical and computerized analysis.

MISSOURI

St. Louis 63141 — AMERICAN SOYBEAN ASSOCIATION SOYBEAN UPDATE newsletter, P.O. Box 27300. Ph. 314-432-1600. Fifty issues yearly. Market information. Available to ASA members only.

NEW YORK

New York 10006 — COMMODITY RESEARCH BUREAU INC., One Liberty Plaza. Ph. 212-267-3600. Commodity Year Book. Statistical Abstract Service to Commodity Year Book, Futures Market Service, Commodity Chart Service, Daily Commodity Computer Trend Analyzer. Textbooks, "Modern Commodity Futures Trading," "Guide to Commodity Price Forecasting," "Economics of the Futures Trading for Commercial and Personal Profit," "Forecasting Commodity Prices" "Techniques of a Professional Commodity Chart Analyst" and "The Fastest Game in Town, Trading Commodity Futures" — which include statistics, charts and written analyses concerned wtih soybean and soybean product price trends.

NEW YORK

New York 10017 — INDUSTRIAL COMMODITY CORP., 122 E. 42nd St. Ph. 212-697-0420. Firm of economic consultants serving top management of leading firms (U.S. and foreign) as well as several foreign governments on personal and confidential basis. Work adjusted to individual needs. Short and long-term specific price advice on soybeans, meal and oil and other commodities. Worldwide service — communications provided in almost any language. Subsidiary companies: J. Carvel Lange Inc. — sales, general business and financial analysis; J. Carvel Lange International Inc., international division of Industrial Commodity Corp.

NEW YORK

New York 10017 — WEATHER TRENDS INC., 565 5th Ave. Ph. 212-682-4280. Weather forecasts and information.

WEST GERMANY

21 Hamburg 90 — OIL WORLD, P.O.B. 900803. Telex 217789 ISTA D. Weekly international crop, production, trade, price and market news, statistics, analyses, and forecasts concerned with soybeans and soybean products as well as competing commodities, all on a world basis, with five special issues. In English.

MILLING SERVICE

KANSAS

Wichita 67219 — CREASON CORRUGATING & MACHINERY CO. INC., 5844 N. Broadway. Also operates Twin City Machine Co. Inc., 527 2nd Ave. SE, Minneapolis, MN 55414; Creason Corrugating Co., 4110 S. Creek Rd., Amnicola Industrial Park, Chattanooga, TN 37406; and Texas Mill Equipment Co., 167 Payne, Dallas, TX 75207. Sales and service for grain processing machinery. Cracking rolls recorrugated, flaking rolls reground. Suppliers of new rolls for cracking and flaking mills.

MASSACHUSETTS

Natick 01760 — ALPINE AMERICAN CORP., 5 Michigan Dr. Ph. 617-655-1123. Telex 94-84-50.

MINNESOTA

Minneapolis 55414 — TWIN CITY MACHINE CO., INC., 527 2nd Ave. SE. Ph. 612-378-2422. Grinding and corrugating cracking rolls; grinding flaking rolls. Also new rolls for sale.

OKLAHOMA

Oklahoma City 73126 — FERRELL-ROSS, P.O. Drawer 26468. Ph. 405-672-5501. Roll grinding and corrugating. New rolls.

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIV., KOPPERS CO. INC. Ph. 717-546-8211. Roll grinding and corrugating.

TENNESSEE

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Ph. 901-362-3267. Replacement rolls both corrugated and smooth for all type mills, roll corrugating and grinding.

AUSTRALIA

Kogarah 2217 — BARTON ADDISON & SONS PTY. LTD., 18 Gray St. Millers.

BRAZIL

CEP 17200 Jau S.P. — MASIERO INDUSTRIAL S.A., Rua Sebastiao Ribeiro, 844; Caixais Postais, 218 & 219, Ph. PBX 22-3822. Offices also in: S. Paulo, Ph. PBX 222-1077; and Recife PE Ph. 222-0389. Manufactures roller mills and crackers.

MISCELLANEOUS

CALIFORNIA

Lafayette 94549 — NEW-AGE FOODS STUDY CENTER, P.O. Box 234, Ph. 415-283-2991. The main source of publications and information on tofu, soymilk, miso, tempeh and other low-technology soyfoods.

DISTRICT OF COLUMBIA

Washington 20036 — INTERNATIONAL VOLUNTARY SERVICES INC., 1717 Massachusetts Ave. NW, Suite 605. Ph. 202-387-5533. Employment for soybean agronomists who can share their expertise with persons in developing countries.

MASSACHUSETTS

Colrain 01340 — SOYCRAFTERS ASSOCIATION OF NORTH AMERICA, Sunrise Farm, Heath Rd., Ph. 413-624-5591. The trade association of soy dairies and tofu, tempeh, and miso shops in North America.

MINNESOTA

Minneapolis 55435 — APPRAISAL SERVICE CO. 6750 France Ave. S. Ph. 612-922-7976. Appraisals.

NEW JERSEY

Summit 07901 — PULVERIZING MACHINERY, div. of MikroPul Corp., 84 Chatham Rd. Ph. 201-273-6360. Laboratory facilities.

RESEARCH & DEVELOPMENT

NEW JERSEY

Basking Ridge 07920 — INTOCO, INC. 373 Lyons Rd. Ph. 201-647-2222. Research and dvelopment of soy oil products.

CANADA

Saskatoon, Sas., S7N 2R4 — POS PILOT PLANT CORP., U of S Campus. Ph. 306-665-7791. Telex: 074-2883 POS SKN. Research and development facilities available on fee-for-use basis. Pilot scale processing equipment and associated laboratory support.

SOYBEAN BREEDERS (PRIVATE)

ARKANSAS

West Memphis 72301 — NORTH AMERICAN PLANT BREEDERS — AGRIPRO, 601 Broadway, P.O. Box 1522. Private soybean varieties and blends.

ILLINOIS

Mason City 62664 — SOYBEAN RESEARCH FOUNDATION INC., Plant Research Institute Bldg. Ph. 217-482-3219. Dr. Arnold Matson.

Mt. Pulaski 62548 — LOUIS BELLATTI, Rt.1. Ph. 217-792-5326.

Princeville 61559 — SEEDMAKERS INC. Ph. 309-385-4832. Dana Stewart, acting chairman. Plant breeder — Marshall Butzow.

INDIANA

Plymouth 46563 — V.R. SEEDS INC., P.O. Box M. Ph. 219-936-2193. Soybean seed varietal development, seed production.

IOWA

Adel 50003 — MIDWEST OILSEEDS INC.Ph. 515-677-2605. Harry H. Stine, president and treasurer; William H. Eby, vice president and secretary.

Ames 50010 — NORTH AMERICAN PLANT BREEDERS — AGRIPRO, Rt. 2, Hwy. 30 E. Ph. 515-232-0691. TWX 910-520-1156. Private soybean varieties and blends.

Washington 52353 — NORTHRUP, KING AND CO., P.O. Box 49. Other plants: 1500 Jackson NE, Minneapolis, MN; 225 Ida St., Waterloo, IA. Soybean breeding and variety development. Dr. John Thorne, plant breeder.

Waterloo 50701 — PETERSON SOYBEAN SEED DIV. PIONEER HI-BRED INTERNATIONAL INC., 3261 W. Airline Hwy., Mr. Robert Freestone, Dr. Clark Jennings, Mr. Don Lindahl, Dr. Carol Schoener, Drawer F, St. Joseph, IL 61873. Dr. John Hicks Jr., P.O. Box 916, Leland, MS 38756.

LOUISIANA

Lake Providence 71254 — TERRAL-NORRIS SEED CO. INC., P.O. Box 826. Ph. 318-559-2840. Soybeans, corn, wheat, oats, cottonseed and rice.

MICHIGAN

Kalamazoo 49001 — ASGROW SEED CO., subsidiary of Upjohn Co., Bldg. 9823-190-1. Ph. 616-385-6658. Soybean, hybrid corn, sorghum and vegetable seed.

MISSOURI

St. Louis 63141 — PFIZER GENETICS. Bellerive Executive Office Park, 1000 Executive Pkwy. Ph. 314-434-9100. Research, production and marketing of soybean seed.

MINNESOTA

Minneapolis 55413 — NORTHRUP KING CO., 1500 Jackson St. NE. Plants at 85 U.S. and international locations. Seed breeding, producing and distribution.

MSI

EXPORTING
QUALITY SOYBEANS
ASK FOR
"MSI QUALITY"

MIDWEST SOYA INTERNATIONAL, INC.
714 West First St.
Cedar Falls, Iowa 50613 USA
TEL. 319-277-7202 TELEX 465650 (MSII CFLS)
EXPORT FACILITY
814 North 5th
Clear Lake, Iowa 50428

RELIABLE SUPPLIERS OF RECLEANED VARIETAL PURE SOYBEANS FOR THE SOYFOODS INDUSTRY WORLDWIDE. CONTACT MSI FOR QUOTATIONS ON FOB, C AND F OR CIF BASIS, BAGGED OR IN BULK.

JAMES E. DUNN
EXECUTIVE VICE PRESIDENT

KIM F. PLEGGENKUHLE
MANAGER

NORTH CAROLINA

Laurinburg 28352 — McNAIR SEED CO., P.O. Box 706. Ph. 919-276-8321. Dr. Sam Anand, breeder.

SOUTH CAROLINA

Hartsville 29550 — COKER'S PEDIGREED SEED CO., P.O. Box 340. Ph. 803-332-8151. Telex 573343. Josh J. Stanton, director, soybean breeding.

TENNESSEE

Bollivar 38008 — NORTHRUP, KING AND CO., Rt. 1, Box 226A. Terry Walker, plant breeder.

TEXAS

Plainview 79072 — RING AROUND SEED, P.O. Box 1629. Ph. 806-293-2676. Dr. William H. Davis, soybean geneticist; Laron Peters, plant breeder; Glynn Phillips and Denise Puterbaugh, technicians; and Paul Cypert, agronomist, Sebree, KY.

WISCONSIN

Clinton 53525 — DAIRYLAND RESEARCH INTERNATIONAL, div. of Dairyland Seed Co., Inc., Rt. 1. Ph. 608-676-2237. Dr. William Campbell, private soybean breeder.

SOYBEAN SEED

ARKANSAS

Stuttgart 72160 — JACOB HARTZ SEED CO. INC., P.O. Box 946. Ph. 501-673-8565. TWX: 910-720-6244. Soybean seed and whole soybean for food use.

ILLINOIS

Pontiac 61764 — WILKEN SEEDS INC., Rt. 4, Ph. 815-844-3458. Wholesale and retail.

OHIO

Amanda 43102 — RUFF'S SEED FARMS, 3870 Ruff Road. Ph. 614-969-2600.

MINNESOTA

Dassel 55325 — TOP-FARM PRODUCTS CO. Ph. 612-275-3321. Research and distribution of seed.

BRAZIL

Carazinho, RGS — GRANJA ALEGRE LTDA., Ave. Sao Bento 722, Cx. Postal 40. CGC-ICM 025/100163. CGC-MF 88.450.945/0001-56. Pres. MaShou Tao; V.P. Jael Ong Ma Ah Yee; Mgr. Ong Wen Chow.

Uberaba, MG — FAZENDA BOA FE, Rua Joao Caetano, 46 Caixa Postal, 263. Ph. 034-332-0339. Insc. Est; PR-182 0169. Pres. Samuel Ma Shou Tao; V.P. Ezra Ma, Miguel Ma

TANK AND COVERED HOPPER CARS

CALIFORNIA

San Francisco 94111 — U.S. RAIL SERVICES, INC., 633 Battery St. Ph. 415-445-7690. Hopper cars and jumbo 20,000 gallon and 23.5 gallon coiled railroad tank cars available for shipping all products. Will sublease your idle owned or leased equipment during slack season.

ILLINOIS

Chicago 60604 — PULLMAN LEASING CO., subsidiary of Pullman Inc., 200 S. Michigan Ave. Ph. 312-322-7070. Freight car leasing of tank cars and covered hopper cars for grain, soybeans, soybean meal and soybean oil transportation.

Chicago 60604 — PULLMAN STANDARD, Div. of Pullman Inc., 200 S. Michigan Ave. Ph. 312-322-7070. The full line of P S covered hopper cars ranging in capacity from 2,400 to 5,800 cubic feet.

Waukegan 60085 — THE ALDON CO., 3410 Sunset Ave. Ph. 312-623-8800. Railway and industrial products. Power car-movers; Swench wrench and electric hopper car door openers. Railroad car wheel chocks. Railroad signs.

MINNESOTA

Minneapolis 55423 — PROFORM INC., 1500 E. 78th St. Ph. 612-861-7191. Plants at Paducah, KY; St. Paul, MN, and Sequin, TX. Covers for inland river hopper barges and open hopper rail cars.

TRANSPORTATION

KANSAS

Kansas City 66115 — AMERICAN BULK TRANSPORT CO. Ph. 913-321-1234. Office: P.O. Box 1408, Kansas City, MO. Terminals at Hayward and Long Beach, CA; Des Moines, IA; Kansas City, KS; Rockaway, NJ; Springfield, OH; Memphis, TN; and Dallas, TX. Common carrier by highway, interstate and intrastate, for vegetable oils and blends and vegetable oil products.

LOUISIANA

New Orleans 70130 — LYKES BROTHERS STEAMSHIP CO. INC., Lykes Center, 300 Poydras St. Ph. 504-523-6611. Telex 58-382. Offices: Mobile, AL; Long Beach and San Francisco, CA; Washington, DC; Chicago, IL; Lake Charles, LA; Kansas City and St. Louis, MO; New York, NY; Memphis, TN; Beaumont, Dallas, Galveston and Houston, TX; Seattle, WA. Export and import shipping. Regularly scheduled cargoliner service from U.S. Gulf, South Atlantic, West Coast and Great Lakes ports to major world trade centers.

MARYLAND

Baltimore 21201 — CHESAPEAKE & OHIO RAILWAY CO., Baltimore and Ohio Railroad Co. and Western Maryland Railway, 1600 One Charles Center. Ph. 301-237-2727. Railroads. Transportation rate, service and equipment information plus plant location logistics aid.

MINNESOTA

Minneapolis 55402 — PEAVEY CO., 730 Second Ave. S. Ph. 612-370-7551. Telex 290125.

NEW YORK

New York 10001 — ALCOA STEAMSHIP CO. INC., One World Trade Center, Room 8151. Ph. 212-775-1177. Ocean transportation to the industry.

TEXAS

Fort Worth 76101 — WESTERN-COMMERCIAL TRANSPORT INC., 2929 W. 5th St., P.O. Box 270. Ph. 817-335-4821. Terminals and equipment located at Jacksonville, IL; Oklahoma City, OK; Dallas, Ft. Worth, Houston and Sherman, TX. Transports bulk commodities via tank trucks.

For the finest Arkansas grown Registered and Certified Soybean, Rice, Oats and Wheat Seed . . .

You gotta have Hartz

Produced and conditioned by . . .

Jacob Hartz Seed Company, Inc.
P. O. Box 946 Stuttgart, Arkansas 72160 (501) 673-8565
Cable HARTZSEED — TWX 910-720-6244
(Answer back HARTZSEED STGT)

soy product processing equipment & supplies

BLEACHING AND FILTERING EQUIPMENT

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; THE DELAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

COLORADO

Denver 80217 — JOHNS-MANVILLE, Ken-Caryl Ranch. Ph. 303-979-1000. Celite diatomaceous earth, cellulose (filter aids), synthetic silicates and filter cartridges.

ILLINOIS

Chicago 60606 — WURSTER & SANGER, INC., 222 W. Adams, Ph. 312-977-4890. Bleaching installations.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Batch and continuous vacuum bleaching plants, acid pretreat plants.

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Ph. 502-491-4310. Batch and continuous vacuum bleaching plants.

PENNSYLVANIA

Pittsburgh 15230 — GULF RESEARCH & DEVELOPMENT CO. DIV., GULF OIL CORP., P.O. Box 2038, Ph. 412-665-6115. Telex: 866277; Cable: GULFOIL PITTSBURGH (PA).

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824.

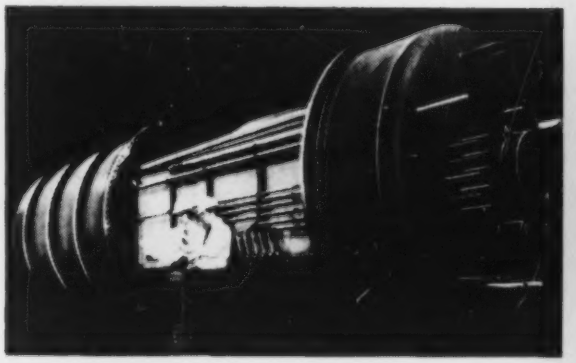
campro

for new ideas in process technology.

DEODORIZATION/ STEAM REFINING

The Campro System represents a breakthrough in the technology of vacuum steam stripping. Low capital and operating costs, easy maintenance and excellent product quality are features responsible for industry-wide acceptance of our equipment.

Write to learn how you can take advantage of our unique system.



PROCESS DEVELOPMENT/ PLANT ENGINEERING

Cambrian offers process R & D and complete plant engineering to the oilseed industry. In our ultramodern research laboratory and pilot plant, we can assist you in the development of new processes for oil extraction, refining, protein isolation and waste treatment. Our experienced engineering group can combine new ideas with proven practice to yield an optimum plant installation.

cambrian processes ltd.
2465 Cawthra Road,
Mississauga, Ont. L5A 3P2 Canada.

NAME

COMPANY

TITLE/DEPT.

ADDRESS

PHONE

cambrian processes ltd.
2465 Cawthra Road, Mississauga, Ont. L5A 3P2 Canada.
PHONE: (416) 272-1400 TELEX: 06-961165

CANADA

Mississauga, Ont. L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Batch and continuous vacuum bleaching plants.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Batch and continuous bleaching and filtering plant.

GERMANY

4000 Duesseldorf — FRANZ KIRCHFELD GmbH KG, Koenigsallee 17. Ph. 0211 839-8450. Telex: 0858199.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Krupp Industrie-und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D.

8000 Munchen 2 — SUD-CHEMIE AG, Lenbachplatz 6, P.O. Box 20-22-40., Ph. 089-51101, Telex: 05-23821. Tonsil bleaching earth.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex: 341859.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-24, 567-95-29. Continuous bleaching.

Mexico 19, D.F. — QUIMICA SUMEX S.A. de C.V., Apartado Postal 19-201, Ph. 5342853, Telex: 01771020. Tonsil bleaching earth.

CATALYSTS

KENTUCKY

Louisville 40232 — UNITED CATALYSTS INC., P.O. Box 32370. Ph. 502-637-9751. Telex 204190, 204239.

OHIO

Beachwood 44122 — THE HARSHAW CHEMICAL CO., P.O. Box 22126. Ph. 216-464-5710. Telex 0985457. Nickel Hydrogenation catalyst.

NEW JERSEY

Boonton 07005 — PVO INTERNATIONAL INC. Ph. 201-334-2900. Selectol®, Resistol® seies; Straight and promoted nickel catalysts; and Crystol® series; Dry reduced promoted catalysts.

PENNSYLVANIA

Erie 16503 — CALSICAT DIV., MALLINCKRODT INC., 1707 Gaskell Ave. Ph. 814-455-0951. Telex 510 696 6814.

TENNESSEE

Sevierville 37862 — ACTIVATED METALS & CHEMICALS INC., P.O. Box 32. Ph. 615-453-7177.

GERMANY

8000 Munchen 2 — SUD-CHEMIE AG, Lenbachplatz 6, Ph. 089-51101, Telex: 05-23821.

COMPLETE PLANTS

ALABAMA

Birmingham 35201 — THE RUST ENGINEERING CO., 1130 S. 22nd, P.O. Box 101. Ph. 205-254-4000. Complete design and construction of seed, oil and fatty acid processing plants from solvent extraction through deodorization to stearic oleic acid separation using Lurgi processes.

ILLINOIS

Champaign 61820 CHARLES ISDALE & ASSOCIATES, INC., Country Fair Box 3226, Ph. 217-351-3117. Oilseed and specialty extraction plants, solvent recovery, desolventizing heat sensitive materials. Brochure provided upon request.

Chicago 60606 — DAVY McKEE CORP., 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254562. Cable ARMAC, CHICAGO. Complete worldwide single source responsibility from feasibility reports through plant start-up. Seed handling and storage, solvent extraction, feed mills, proteins, oil refining, fatty acids and fatty chemicals, environmental engineering. Not an equipment supplier so can offer owner un-biased recommendations for best equipment selection.

Chicago 60606 — WURSTER & SANGER, INC., 222 W. Adams, Ph. 312-977-4890. Designs and constructs continuous solvent extraction, degumming, neutralization, bleaching, hydrogenation, deodorization, shortening, margarine, fatty acid distillation, fat splitting glycerine and protein plants.

Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. From grain receipt through derivatives for oilseeds and cereal grains or any unit operation in between. Combine the best or preferred equipment to your problem by an independent group.

Des Plaines 60016 — AUSTIN CO., process div., 2001 Rand Rd. Ph. 312-827-8833. Surveys, reports, complete plant design, equipment and construction using owner's process.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Solvent extraction, oil refining, bleaching, hydrogenation, physical refining, deodorization, degumming, lecithin drying, fat splitting, fatty acid distillation and winterization, palm and coconut oil steam refining-deodorizer.

Downers Grove 60515 — Du MOND CO. INC., 5329 Main St., Drawer E. Ph. 312-969-2010. Telex 270067. Buy and sell used complete solvent and expeller plants and individual pieces of equipment.

IOWA

Cedar Falls 50613 — SOYPRO INTERNATIONAL INC., 314 Main St. Ph. 319-277-4700. Telex 465653. Complete oilseed plant services, including preliminary layout and design, feasibility reports and project financing in most countries of the world. Plant design, construction and start-up include raw materials receiving, storage and transport, seed prepara-

tion, solvent or expeller extraction, full-line proteins production, lecithin production, oil refining, soy milk production, laboratory, dust and pollution controls. Management services include trading and hedging, materials accounting and controls, and general management. Over 15 years of worldwide service devoted entirely to the oilseed processing industry.

MINNESOTA

Minneapolis 55440 — CROWN IRON WORKS CO., 1229 Tyler St. NE, P.O. Box 1364. Ph. 612-781-3101. Complete continuous solvent extraction plants.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 136 170 NEUMUNZ LEON.

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO., 1035 W. Greene St. Ph. 513-773-3420. Telex 288 009. Engineering of complete plants.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Solvent extraction "Rotocel." Single and dual stage miscella evaporator systems. Optional low temperature oil recovery. Patented dual pressure oil stripper. Desolventizer-Toaster for preparing animal meal. Variable pressure Desolventizer-Deodorizer systems for producing wide range of protein products. Sorbocel solvent recovery system. Batch and continuous hydrogenation, fat splitting and fatty acid distillation systems. Complete know-how for designing protein isolate and concentrate plants.

TENNESSEE

Memphis 38116 — PSI PROCESS SYSTEMS INC., 2930 Airways Blvd. Ph. 901-345-8760. Complete design, engineering and construction of plants for solvent extraction, degumming, refining, bleaching, hydrogenation, winterization, oil blending, deodorization, shortening, margarine, fat splitting, glycerine, fatty acid distillation, fatty chemicals, waste water treatment and associated plant requirements.

TEXAS

Dallas 75205 — DU-VAL I.F.T. CORP., 5121 McKinney. Ph. 214-526-4630. Complete plants including storage, drying and aeration, grinding and mixing, pellet machines, decorticator-separators, flakers, solvent extraction and refining equipment.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Soybean preparatory plants, solvent extraction, oil refining, bleaching, hydrogenation, deodorization, continuous degumming and lecithin drying plants, fat splitting and fatty acid distillation, continuous oil winterization and continuous fractionation plants, desolventizing and toasting units.

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

CANADA

Mississauga, Ont. L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Solvent extraction, refining, bleaching, physical refining, deodorization, hydrogenation, hydrogen gas generation, packaging plants.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Design, construction of soybean pretreatment, solvent extraction, screw presses, batch and continuous refining, degumming, bleaching, deodorizing; hydrogenation plant. Licensed overseas manufacturer of "Rotocel" extraction system and "Votator" deodorizers.

GERMANY

33 Braunschweig — BUHLER-MIAG, P.O. Box 3369. Ph. (0531) 5941. Complete solvent extraction plants. Special silos. Cleaning, drying, hulling and conditioning equipment; crushing and pressing plants. Also flaking equipment.

D-6000 Frankfurt am Main, — LURGI UMWELT UND CHESMOTECHNIK GmbH, Gervinusstr, 17-19, Postfach 11 91 81. Also Lurgi Corp., 377 Rt. 17, Hasbrouck Heights, NJ 07604. Continuous solvent extraction plants for soybeans; continuous edible oil refineries including bleaching and deodorization plants for soy oil.

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40/39-11-96 . Telex: 214489 or 213452. Manufacturer of cracking mills and flaking mills. Complete plants for fine-grinding of different soya products.

2000 Hamburg 76 — EXTRAKTIONSTECHNICK, Gesellschaft fur Anlagenbau m.b.H., P.O. Box 76-03-69. Ph. 040-220-1261. Designs and constructs complete solvent extraction and refinery plants including the continuous Carrousel Extractor. Licensee for manufacture in Europe for desolventizer toaster, system Central Soya; Votator deodorizer.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Krupp Industrie-und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D. Rotocel-solvent-extraction, license Dravo, pressing, refinery, turn-key projects.

HOLLAND

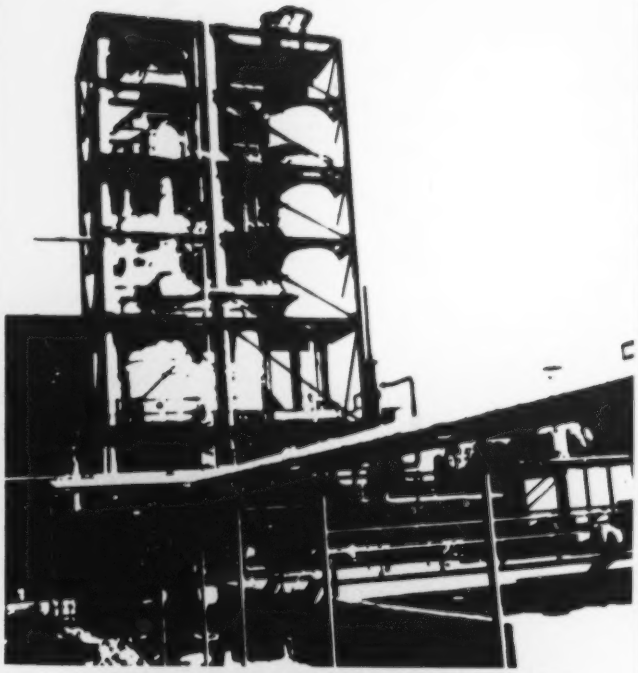
Amsterdam — STORK/AMSTERDAM B.V., subsidiary of VMF/Stork, Ketelstraat 2, P.O. Box 3007, 1003 AAT. Ph. 020-213141. Telex 12517. Cable STORKAMSTERDAM. Complete vegetable oil mills. Differential pressure solvent extraction.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29. Complete design and construction services from seed unloading to edible oil packaging.



SYSTEMS ARE THE SOLUTION

EMI CORPORATION

O'Hare Office Center
3166 Des Plaines Ave., Des Plaines, IL 60018, U.S.A.
Phone 312-827-3164 • Telex EMI DSP 726354

Representatives:

KOREA • Hyundai Corporation • Kuk Dong Bldg. • Room 610 • 60-1 3 Ka. Chungmu-Ro Jung-Ku • C.P.O. Box 8943 • Seoul, Republic of Korea • Telephone: 261-7720 • Telex No.: K23175 HDCORP

MALAYSIA • United Engineers (Malaysia) Berhad • P.O. Box 135 • Ipoh, Malaysia • Telephone: 3756 • Telex No.: UEM MA 44107

MEXICO • Rehmex, S.A. • Apartado Postal M6965 • Mexico 1, D.F. Mexico • Telephone: 545-74-00, 531-46-12, 250-06-24 • Telex No.: 01773942 Lago Mask

CHINA • Jardine, Matheson & Co., Ltd. • China Trading Division • World Trade Centre • P.O. Box 20748 • Causeway Bay, Hong Kong • Telephone: 5-799011 • Telex No.: 73406 JMWTC

PHILIPPINES • James B. Jensen & Company • Prescon Strata 100 Bldg., Suite 10H • Emerald Ave., Pasig, Metro Manila • Philippines • Telephone: 693-4259, 693-4260 • Telex No.: 2097 JJN PM

TAIWAN • China Trade & Development Corporation • 3rd Floor, China Union Bldg. • P.O. Box 3095 • 150, Nanking East Rd., Sec. 2 • Taipei 104, Taiwan • Republic of China • Telephone: 5217272—5217279 • Cable Address: Tradevelop Taipei • Telex No.: 11297 Tradevel or 11538

VENEZUELA • Imports—Exports Ventrade C.A. • Centro Capriles 1er. Piso, of. 105 • Plaza Venezuela • Caracas 105, Venezuela • Telephone: 781.2156—782.0775 • Telex No.: 24177 Tebro Ve

OIL PROCESSING PLANTS

Soybean Oil Degumming
Caustic Refining
Hydrogenation
Deodorization
Salad Oil
Lecithin
Vacuum Bleaching
Winterizing
Shortening
Margarine Oil
Partial Hydrogenation and Winterizing of Soybean Oil

PHYSICAL REFINING SYSTEMS

Pretreatment System
Steam Refining
Deodorizer

FATTY ACID PROCESSING SYSTEMS

Fat Splitting
Fractional Distillation
Straight Distillation
Light Ends Stripping
Hydrogenation
Bleaching

SOLVENT EXTRACTION

Preparation Systems
Dehulling Systems
Extractors
Desolventizers
Solvent Recovery
Meal Grinding
Meal Storage
Evaporators

EDIBLE PROTEIN PROCESSING

Alcohol Extraction
Flash Desolventizing
PDI Control System

SWITZERLAND

9240 Uzwil — BUHLER BROTHERS LTD. Ph. (073) 50 11 11. Complete solvent extraction plants, special silos, cleaning, drying, hulling, flaking and conditioning equipment, crushing and pressing plants.

CONTINUOUS COUNTERCURRENT SOLVENT EXTRACTORS

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., protein plants, 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Continuous filtrex and carrousel extractors.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Complete continuous solvent extraction plants and equipment.

MINNESOTA

Minneapolis 55440 — CROWN IRON WORKS CO., 1229 Tyler St. NE, P.O. Box 1364. Ph. 612-781-3101. Complete continuous solvent extraction plants, extractors and desolventizertoasters, meal dryers and coolers.

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO. Ph. 513-773-3420. Telex 288009. Stationary basket extractors; desolventizer toasters; cracking rolls, flaking rolls, meats conditioners and complete extraction plants.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Complete solvent extraction plants, "Rotocel" extractors, D-T units and vapor desolventizers.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Complete continuous solvent extraction plants.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Continuous extraction plant with up to 3,000 tons/day in one unit. Licensed overseas manufacturer of "Rotocel" extractor.

GERMANY

2000 Hamburg 76 — EXTRAKTIONSTECHNIK, Gesellschaft fur Anlagenbau m.b.H., P.O. Box 76-03-69. Ph. 040-220-1261. Continuous Carrousel Extractors up to 3,000 day-tons per unit and complete extraction plants.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Krupp Industrie-und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D. Licensed overseas manufacturer of Dravo "Rotocel" extraktor.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

CONTINUOUS SCREW PRESSES

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO. Ph. 513-773-3420. Telex 288009. Continuous screw presses, cookers, driers.

Strongsville 44136 — ANDERSON INTERNATIONAL CORP., 19699 Progress Dr. Ph. 216-238-5800. Exclusive builder of Expeller Presses. Designer of complete oil mills and textured vegetable protein plants.

TEXAS

Slaton 79364 — SIKES MACHINE SHOP, 2100 Industrial Dr., P.O. Box 370, Ph. 806-828-6568. ASME, Section VIII, Pressure vessels (etg.) cookers, coolers, dryers and heat exchangers.

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Low and high pressure screw presses from 5T per day upwards. Also prepresses and seed preparation.

GERMANY

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40/39-11-96. Telex: 214489 or 213452. Preparation of high-fat seeds before pressing by cracking mills and flaking mills.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Krupp, Industrie-und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D. High-capacity presses for prepressing and single pressing of oilseeds including seed preparation.

CONTROL INSTRUMENTS

ILLINOIS

Addision 60101 — ERDCO ENGINEERING CORP., 136 Official Rd. Ph. 312-543-6733. Flammable gas or vapor detection and control systems with SNIFF-N-SNEEZE auxiliary equipment to provide reliable detection of hexane in vegetable oil processing operations. Flash Point test instrumentation for rapid and accurate flash point determination of primary and diluted flammable liquids.

Northbrook 60062 — MCC POWERS, A Unit of Mark Controls Corp., 3400 Oakton St. Ph. 312-673-6700. Temperature, pressure and humidity control instruments and systems for processing and space conditioning.

MASSACHUSETTS

Foxboro 02035 — THE FOXBORO CO., 38 Neponset Ave. Ph. 617-543-8750. Telex: 927-602. Instruments and control systems manufacturer.

PENNSYLVANIA

Fort Washington 19034 — HONEYWELL, Process Control Div./Fort Washington. Ph. 215-643-1300. Telex 846-398. Recording, indicating and controlling instruments, nonindicating controllers, valves, control accessories and panels. Digital process control systems, installation, startup and maintenance services.

DEGUMMING

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; The DeLAVAL SEPARATOR CO. 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete degumming equipment.

Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. Continuous or batch systems for degumming, lecithin bleaching and drying.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Systems for continuous degumming, lecithin drying and bleaching.

NEW JERSEY

Northvale 07647 — CENTRICO INC., 100 Fairway Ct., P.O. Box 178. Ph. 201-767-3900. Complete degumming equipment.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824.

GERMANY

4000 Duesseldorf — FRANZ KIRCHFELD GmbH KG, Koenigsallee 17. Ph. 0211 839-8450. Telex: 08581999.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29.

DEODORIZATION

ALABAMA

Birmingham 35201 — THE RUST ENGINEERING CO., 1130 S. 22nd, P.O. Box 101. Ph. 205-254-4000. Continuous or semicontinuous Lurgi deodorization systems complete with vapor scrubbing and distillate recovery.

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; The DeLAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete batch and continuous and high-vacuum deodorization plants.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Continuous high-vacuum deodorization plants. Physical refining systems.

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Ph. 502-491-4310. Semicontinuous deodorization plants.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 Neumunz Leon. Complete continuous deodorizing plants, also batch.

NEW YORK

Rochester 14603 — CVC PRODUCTS, 525 Lee Rd., Box 1886. Ph. 716-458-2550. Centrifugal molecular distillation equipment.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Continuous vegetable oil deodorizers.

Used Equipment

For Soybean Processing, Cottonseed Processing, Vegetable Oil Refining

Over 4,500 pieces of highly usable equipment in our constantly changing computerized inventory. Immediate availability at substantially reduced prices. Fast, friendly, honest service. We also buy.

- Extractors
- Cracking Mills
- Flaking Mills
- Hammermills
- Dryers & Coolers
- Stack Cookers
- Desolventizing Toasters

Write or phone for specifics and current catalog

Over 15 Years of Specialized Service to the Industry

DuMOND CO., INC.

Drawer E3 • Downers Grove, Ill. 60515

Phone: (312) 969-2010

Telex: 270067 Cable: DUMOND

VIRGINIA

Covington 24426 — WESTVACO CORP., CHEMICAL DIV., CARBON DEPT., Ph. 703-962-1121. Products, activated carbon, granular and powdered.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A. 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Complete continuous and semicontinuous, high-vacuum deodorization plants.

BRAZIL

Cep. 17200 Jau S.P. — MASIERO INDUSTRIAL S.A., Rua Sebastiao Ribeiro, 844; Caixais Postais, 218 & 219, Ph. PBX 22-3822. Offices also in: S. Paulo, Ph. PBX 222-1077., and Recife PE, Ph. 222-0389.

CANADA

Mississauga Ont., L5A 3P1 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Continuous deodorization and physical refining systems.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Batch, semicontinuous and continuous deodorizers including new design "Econoflow" semi or continuous deodorizer for physical refining or normal deodorizing. Full range heat recovery and steam conservation systems. Licensed overseas manufacturer of "Votator" deodorizer.

GERMANY

4000 Duesseldorf — FRANZ KIRCHFELD GmbH KG, Koenigsallee 17. Ph. 0211 839-8450. Telex: 08581999.

2000 Hamburg 76 — EXTRAKTIONSTECHNIK, Gesellschaft fur Anlagenbau m.b.H., P.O. Box 76-03-69. Ph. 040-220-1261. Licensed overseas supplies of Votator-deodorizers.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Industrie und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D. Continuous, semicontinuous and batch-type equipment.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29.

ELECTROLYZERS

GERMANY

D-6308 Butzbach — DAVY BAMAG GmbH., P.O. Box 460. Telex 410 237. A member of the Davy McKee Group. Designer and supplier of electrolyzers for the production of hydrogen and heat generators HTE working with saturated steam.

FAT SPLITTERS

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete batch, semicontinuous and continuous plants.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Continuous and batch fat splitters.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Continuous fat splitters.

FATTY ACID DISTILLATION

ALABAMA

Birmingham 35201 — THE RUST ENGINEERING CO., 1130 S. 22nd, P.O. Box 101. Ph. 205-254-4000. Complete continuous Lurgi distillation and fractionation systems.

ILLINOIS

Chicago 60606 — DAVY McKEE & CO., 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254562. Cable ARMAC, CHICAGO. Single source responsibility for complete splitting, glycerine recovery, fractionation and/or fatty chemical systems.

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete continuous distillation plants.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Batch and continuous distillation and high-purity fractionators. Glycerine recovery.

NEW YORK

Rochester 14603 — CVC PRODUCTS, 525 Lee Rd., Box 1886. Ph. 716-458-2550. Centrifugal molecular distillation equipment.

OHIO

Dublin 43017 — SHEREX CHEMICAL COMPANY, INC. Box 646, Ph. 614-889-3700. Saturated fatty acids, fractionated fatty acids, glycerides and epoxidized soy oil.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S. A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824.

HYDROGENATION

ALABAMA

Birmingham 35201 — THE RUST ENGINEERING CO., 1130 S. 22nd, P.O. Box 101. Ph. 205-254-4000. Complete Lurgi continuous hydrogenation systems for fatty acids proven in operation.

Votator Process Equipment

Chemetron Process Equipment– Manufacturers and engineers for the fats and oils process industry.

- **Votator Deodorizers.** New-style, semi-continuous systems. Recognized worldwide for operating economy and product quality. Units sized to match your needs.
- **Votator Scrub Cooler.** For the efficient recovery of deodorizer distillate. Adaptable to new and existing deodorizers.
- **Votator Bleaching and Hydrogenation.** Continuous bleaching plants, low capital costs, high operating efficiency. "Dead-End" hydrogenation plants for uniform solids content batch after batch.
- **Votator Margarine and Shortening Process Unit.** Designed for margarine production and cooling and plasticizing of shortenings. Rotary piston fillers engineered for fast, accurate filling of household shortenings. CR Mixers designed to assure the continuous emulsification, aeration and whipping of margarine and shortening.
- **Votator/Schenk Filter.** Consistent delivery of crystal-clear filtrates. Closed circuit helps to prevent contamination. Centrifugal action spin-cleans horizontal filter plates. No manual cleaning.
- **Engineers.** Technical assistance on fatty oil processing.
- **Get the full story.** Write or telephone Chemetron Process Equipment, P.O. Box 35600, Louisville, Kentucky 40232, (502) 491-4310.

CHEMETRON™ Process Equipment

An Allegheny Ludlum Industries Company

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; The DeLAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254 355 JACOBS CGO. Complete hydrogenation, hydrogen gas-producing and storage systems.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Batch and automated hydrogenation systems for edible oils and fatty acids.

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Ph. 502-491-4310. Complete hydrogenation plants.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 NEUMUNZ LEON.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Continuous and batch hydrogenation. Pilot and commercial data.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Complete hydrogenation plants.

CANADA

Mississauga, Ont. L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Complete hydrogenation and hydrogenation gas generation plants.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Gas generation, hydrogen gas handling and storage plant.

GERMANY

4000 Duesseldorf — FRANZ KIRCHFELD GmbH KG, Koenigsallee 17. Ph. 0211 839-8450. Telex: 08581999.

D-6000 Frankfurt am Main — LURGI UMWELT UND CHEMOTECHNIK GmbH, Gervinusstra. 17-19, Postfach 11 91 81. Also Lurgi Corp., 377 Rt. 17, Hasbrouck Heights, NJ 07604. Continuous and batch-wise hydrogenation plants for soy oil.

2100 Hamburg 90 — FRIED. KRUPP GmbH, Industrie-und Stahlbau, Werk Harburg, Box 90 08 80. Ph. 040 771 791. Telex 021 7777 HEBH D. Complete plants.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MEXICO

Mexico 14, D.F. — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29. Batch.

INDUSTRIAL HYDRAULIC PRESSING EQUIPMENT

OHIO

Piqua 45356 — FRENCH OIL MILL MACHINERY CO., Ph. 513-773-3420. Telex 288-009.

MARGARINE

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Margarine manufacturing apparatus.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Monoglycerides process.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MISCELLANEOUS

GEORGIA

Atlanta 30318 — DAVIDSON-KENNEDY CO., 1090 Jefferson St. NW, P.O. Box 93406. Extractors, heat exchangers and condensers.

Macon 31201 — J.M. HUBER CORP., Clay Div., Marketing Dept., Rt. 4 Huber. Ph. 912-745-4751. Supplier of Nopak Clay anticaking agents. Advice on handling and application of anticaking agents to soybean meal.

ILLINOIS

Champaign 61820 — CHARLES ISDALE & ASSOCIATES, INC., Country Fair Box 3226, Ph. 217-351-3117. Systems for reclaiming or upgrading byproducts or waste. Brochure provided upon request.

Countryside (La Grange) 60525 — TENCO HYDRO INC., 5220 East Ave. Ph. 312-482-7200. Air and water pollution control. Dissolved air flotation systems for separation of soybean oil, vegetable oil, etc., from waste streams.

Decatur 62526 — SUPERIOR WELDING CO., 900 E. Divison St. Telex 25-0135. Fabrication, installation and repair of heat exchange equipment, rising film evaporators, oil strippers, columns, miscella tanks, hexane hold tanks, etc.

INDIANA

Valparaiso 46383 — URSCHEL LABORATORIES INC., 2503 Calumet Rd. Ph. 219-464-4811. Telex 258 337. Designers and manufacturers of equipment for the controlled size reduction of food products in-

cluding the Urschel Comitrol with special Urschalloy cutting head for the soy protein production process.

IOWA

Cedar Rapids 52407 — TOKHEIM CO., 1123 C Ave. NW, P.O. Box 4067. Manufactures flame arresters and pressure-tight tank gauges.

Cedar Rapids 52407 — TOKHEIM CO., 1123 C Ave. NW, P.O. Box 4067. Manufacturers flame arresters and pressure-tight tank gauges.

MASSACHUSETTS

Framingham 01701 — AMERICAN LEWA INC., P.O. Box 928. Ph. 617-653-0229. Telex 94-8420. Metering pumps.

MISSISSIPPI

Hattiesburg 39401 — W.R. FAIRCHILD CONSTRUCTION CO. LTD., P.O. Box 1857. Ph. 601-544-1151. Pile driving our specialty.

MISSOURI

Kansas City 64108 — WENGER INTERNATIONAL INC., One Crown Center, Suite 510, 2400 Pershing Rd. Ph. 816-221-5084. Telex 42387. Wenger process for cooking full-fat soybeans and soy enriched cereal based foods and textured soy proteins and Uni-Tex meat analogs.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 Neumunz Leon. Machinery for vegetable oil mills, chemicals used in neutralizing and refining soy oil.

Westfield 07091 — CROLL-REYNOLDS CO. INC., 751 Central Ave. Ph. 201-232-4200. Also New York. Scrub-Vactor — Jet-venturi fume scrubber and parallel flow condenser which uses the product itself as the scrubbing and condensing medium. Used primarily to recover products from edible oil deodorizers and distillation equipment; also manufactures complete line of steam jet vacuum equipment.

NEW YORK

Fishkill 12524 — FOSS AMERICA INC., P.O. Box 504. Ph. 914-226-2056. Telex 926477. Remote monitoring systems for in-line and storage reading and control of temperature and moisture. Instruments and systems for determination of protein, crude oil and moisture in soybeans and other oilseeds. Rapid, automated Macro-Kjeldahl.

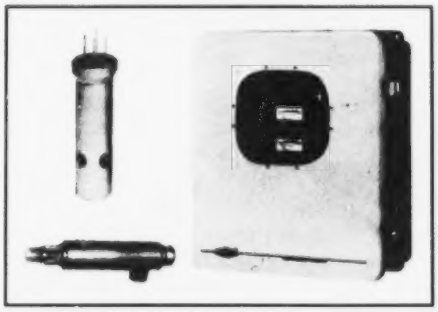
OHIO

Cleveland 44106 — CHASE METALS SERVICE INC., subsidiary Chase Brass & Copper Co. and Kennecott Copper Corp., 11000 Cedar Ave. Ph. 216-283-3300. Aluminum, brass, copper and stainless mill products.

Strongsville 44136 — ANDERSON INTERNATIONAL CORP., 19699 Progress Dr. Ph. 216-238-5800. Coolers, screening tanks, flakers, grain expanders, cooker extruders, filters, steam, gas, air and vapor separators and special fabricated equipment.

Early Warning and Control of Hexane Vapors

Erdco Flammable Gas and Vapor Detection/Control System saves downtime, provides margin of safety for vegetable oil processing plants.



Erdco Series 25D features:

- Environment-proof enclosures
- Detection in the 0-100% LFL (lower flammable limit) range
- Output contacts for your audible and visual alarms
- Ventilation or process control output contact options

Sniff-N-Sneeze Auxiliary Equipment option provides continuous and more reliable detection in atmospheres having high dust and/or humidity levels.

Additional Safety Equipment
Erdco Flash Point Test Instrumentation provides rapid and accurate flash point determination of primary and diluted flammable liquids.

Send for Technical Bulletins Now

ERDCO

Over Thirty Years of Commitment to Technical Excellence

Erdco Engineering Corporation
721 Custer Ave.,
Evanston, Illinois 60202, U.S.A.
312/328-0550

PENNSYLVANIA

Muncy 17756 — SPROUT-WALDRON DIVISION, KOPPERS CO. INC. Ph. 717-546-8211. Telex: 841 411. Cooker/extruder for texturized soy protein.

TENNESSEE

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Ph. 901-362-3267. Complete distillation equipment designed and fabricated, utilizing the latest principles of steam saving, also disk and donut stripping columns and condensers; mineral oil systems.

TEXAS

Fort Worth 76109 — W.C. CANTRELL CO., P.O. Box 11216. Ph. 817-923-7382. Telex 75-8436. Manufacturers of Bauer oilseed equipment, rebuilders of oil mill machinery. Repair parts from stock.

WISCONSIN

Green Bay 54301 — FEECO INTERNATIONAL INC., 3913 Algoma Rd. Ph. 414-468-1000. Telex 263456. Desolventizer toaster, toasters, cookers pelletizers.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.20. Telex 31.824. Soybean preparatory plants, flakers breakers, cookers, toasting units, continuous lecithin drying plants, continuous oil winterization and fractionation, bleaching earth extraction plants, continuous soapstock splitting plants, hydrogenation.

BRAZIL

30.000 Belo Horizonte — ITALMECANICA LTDA. INDUSTRIA E COMERCIO DE MAQUINAS E EQUIPAMETOS, subsidiary of Italtecnica Ltda., Rua Divisa Nova n° 42-61. Ph. 221.9022, 221.9947, 221.0090. Telex: 031-1765 ITNE BR. Manufacturers of cooker extruders for soybeans and other cereals.

Cep. 17200 Jau S.P. — MASIERO INDUSTRIAL S.A., Rua Sebastiao Ribeiro, 844; Caixais Postais, 218 & 219, Ph. PBX 22-3822. Offices also in: S. Paulo, Ph. PBX 222-1077. Recife PE, Ph. 222-0389. Manufacturer of expellers, prepress expellers cookers, refining and reducers.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Soybean preparation plant including flaking and breaking rolls, cookers and toasting units.

GERMANY

33 Braunschweig — BUHLER-MIAG, P.O. Box 3369. Ph. (0531) 5941. Cleaning, drying, hulling and conditioning equipment. Crushing, pressuring and solvent extraction plants.

HOLLAND

Amsterdam — STORK-AMSTERDAM B.V., subsidiary of VMF/Stork, Ketelstraat 2, P.O. Box 3007, 1003, AAT Amsterdam. Ph. 020-213141. Telex 12517. Cable STORKAMSTERDAM. Shaker-conditioners and shaker-cookers for food processing systems.

PHILIPPINES

Bagong Ilog, Psaig, M. Manila — UNIVERSAL ROBINA CORP., E. Rodriguez Ave., Pasig, M. Manila. Ph. 682-5402. Bleaching earth, carbon, filter aid, ionol-CP. Also grinders, flakers, pumps, condensers, separators, evaporators, extractors and deodorizers.

NEUTRALIZATION

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; The DeLAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

ILLINOIS

Chicago — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Kettle and continuous refining plants.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Batch and continuous caustic refining systems. High vacuum steam/deodorizer refining systems.

NEW JERSEY

Northvale 07647 — CENTRICO INC., 100 Fairway Ct., P.O. Box 178. Ph. 201-767-3900. Centrifugal refiners.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Continuous miscella refining plants. Physical refining plants.

CANADA

Mississauga, Ont. L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Batch and continuous caustic refining systems. Pretreatment and physical refining systems.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Batch and continuous refining plant.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

PROTEIN PLANTS

ILLINOIS

Champaign 61820 — CHARLES ISDALE & ASSOCIATES, INC. Country Fair Box 3226, Ph. 217-351-3117. Specialty extraction plants, protein concentrates, hydrolyzates, solvent recovery, desolventizing heat sensitive materials, gasohol from solubles. Process development and design.

Chicago — DAVY McKEE CORP. 10 S. Riverside Plaza. Ph. 312-454-3600. Telex 254-562. Cable ARMAC, CHICAGO. Extensive expertise in soy flour, grits, texturized proteins, concentrates and isolates,

dry and wet pet foods, glutens, whey proteins, single cell proteins, and computerized cereal blending, alcohol wash processes. Not an equipment supplier so can offer owner unbiased recommendations for best equipment selection.

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete protein plants.

Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. Soy flour, grits, concentrate and isolate with processes based on actual plant construction and operation or unique developmental approach.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Dehulling for 50% soy protein, flash desolventizers for wide range of protein solubilities, protein concentrate, edible and industrial proteins.

IOWA

Cedar Falls 50613 — SOYPRO INTERNATIONAL, INC., 314 Main St. Ph. 319-277-4700. Telex 46563. Complete services for production and marketing of all types of soy proteins. Market analyses and feasibility reports, project financing, plant design, construction management, start-up, laboratory and quality control systems, personnel training, marketing and product utilization. Unbiased selection of the equipment for each application.

PENNSYLVANIA

Pittsburgh 15222 — DRAVO CORP., CHEMICAL PLANTS DIV., One Oliver Plaza. Dehulling process to produce 50% protein soy meal. Edible and industrial protein isolates and concentrates with process based on pilot and commercial plant data.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824. Plants for production of high protein meal, low and high NSI meals, concentrates and isolates.

CANADA

Mississauga Ont. L5A 3P2 — CAMPRO (CAMBRIAN PROCESSES LTD.), 2465 Cawthra Rd. Ph. 416-272-1400. Telex 06-961165. Protein concentrate plants for rapeseed industry.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Design and manufacture of equipment incorporating variable temperature pressure desolventizing techniques to yield meals with wide range of protein dispersibility index.

GERMANY

D-2000 Hamburg 50 — HERMANN BAUERMEISTER MASCHINENFABRIK GmbH. P.O. Box 50-01-60, Friedensallee 44. Ph. 40/39-11-96. Telex: 214489 or 213452. Plants for fine-grinding and sifting of normal and high-protein meals and also for concentrates and isolates.

4740 Oelde 1 — WESTFALIA SEPARATOR AG, P.O. Box 2420. Ph. 0 25 22 771. Telex: 89474. Cable WESTFALIA OELDE. Continuous separators and decanters for soybean protein.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex: 341859. Plants for production of protein meal variable NSI, flash desolventized and texturized proteins.

SHORTENING

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete blending, chilling and plasticizing plants.

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Ph. 502-491-4310. Chilling and plasticizing apparatus. Rotary piston fillers for shortening.

SOAPSTOCK

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. Div; The DeLAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

KENTUCKY

Louisville 40232 — CHEMETRON PROCESS EQUIPMENT, DIV. OF CHEMETRON CORP., P.O. Box 35600. Ph. 502-491-4310. Method and equipment for upgrading and drying of soapstock.

SOLVENT RECOVERY

CONNECTICUT

New Haven 06509 — ENTOLETER INC., subsidiary of American Mfg. Co. Inc., P.O. Box 1919. Ph. 203-787-3575. Telex 963479.

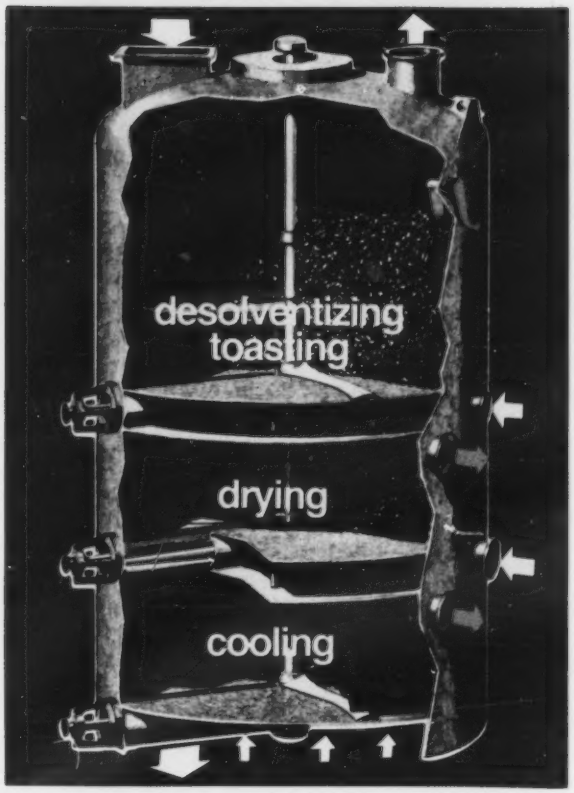
ILLINOIS

Champaign 61820 — CHARLES ISDALE & ASSOCIATES, INC., Country Fair Box 3226, Ph. 217-351-3117. Solvent recovery systems for air vents to atmosphere, liquid wastes to sewer, liquid process streams, vapor process streams, solid products. Oil absorption, carbon absorption, refrigerated condensor, pressure aftercooler, or distillation design. Economic system selection for your process. Brochure provided upon request.

Danville 61832 — ROSS BRIAN & ASSOCIATES INC., 81 Country Club Dr. Ph. 217-443-2605. Mineral or indigenous triglyceride oil absorption systems for any size plant to maximize hydrocarbon solvent recovery.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164.

Desolventizes, toasts, dries and cools, all in one unit.



Now operating and saving energy in 5 locations, U.S. and Canada.

Big savings and product improvement are yours when you install the new Crown DTDC — a single space-saving unit that does the whole meal processing job, accepting solvent-laden meal from the extractor and delivering it cool, dry and solvent-free.

Combining the three processes in one vessel accounts for savings in initial cost, but the Crown DTDC is more than just a combination unit. Rotary valves separating the compartments provide more uniform and more easily controlled retention time. Hexane content of the finished meal is reduced and toasting is more uniform. Other advantages are savings in energy, as heat is used more efficiently, and in maintenance, as there is less exposure to corrosion. Moreover conveying between units is eliminated.

The DTDC is manufactured in the United States and Canada only by Crown Iron Works Co. under exclusive license from Heinz Schumacher of Hamburg, Germany.

CROWN

PROCESS EQUIPMENT DIVISION

Crown Iron Works Co.

PO BOX 1364, 1229 TYLER ST NE, MPLS. MINN 55440

PHONE (612) 781-3101

Telex EMI DSP 726 354. Oil absorption systems for complete solvent recovery.

MINNESOTA

Minneapolis 55440 — CROWN IRON WORKS CO., 1229 Tyler St. NE, P.O. Box 1364. Ph. 612-781-3101. Mineral oil absorption systems for all size plants for maximum solvent recovery. Complete or partial solvent recovery systems for vegetable oil mills.

TENNESSEE

Memphis 38118 — N. HUNT MOORE & ASSOCIATES INC., 3951 Senator St. Ph. 901-362-3267. Mineral oil absorption systems engineering. Maximum solvent recovery.

BELGIUM

2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031-49.42.40. Telex 31.824. Oil absorption solvent recovery units.

Roeselare — DAMMAN-CROES S.A., 55 Rue d'Espagne. Ph. 051 20 43 43, 031 49 49 17. Telex 81 548.

BRAZIL

Cep. 17200 Jau S.P. — MASIERO INDUSTRIAL S.A., Rua Sebastiao Ribeiro, 844; Caixais Postais, 218 & 219, Ph. PBX 22-3822. Offices also in: S. Paulo, Ph. PBX 222-1077., Recife PE, Ph. 222-0389.

ENGLAND

Hull — SIMON-ROSEDOWNS LTD., Cannon St. Ph. 0482-29864. Telex 52226. Oil absorption solvent recovery units including "Sorbocel" manufactured license from Dravo Corp.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

SOLVENTS

ILLINOIS

Chicago 60646 — DRAKE PETROLEUM CO., 6231 N. Pulaski Rd. Ph. 312-588-2060. Div. offices: Cedar Rapids, IA 52404, Ph. 319-365-4744. Cleveland, OH 44102, Ph. 216-961-3340; Louisville, KY 40216, Ph. 502-448-6200; Peoria, IL 61611, Ph. 309-692-6543. Supplier of Drake hexane, heptane and other extraction solvents; also chlorinated solvents.

ILLINOIS

Schaumburg 60196 — UNION CHEMICALS DIV., UNION OIL CO. OF CALIFORNIA, 1345 N. Meacham Rd. Sales offices: 14445 Alondra Blvd., La Mirada, CA 90638, Ph. 714-523-5120; 17 Executive Park Dr. NE, Atlanta, GA 30329, Ph. 404-325-9010; 1701 Golf Rd., One Continental Towers, Suite 506, Rolling Meadows, IL 60008, Ph. 312-885-6466; 67 Walnut Ave., Clark (New York), NJ 07066, Ph. 201-574-9890; 1100 Milam Bldg., Suite 2665, Houston, TX 77002, Ph. 713-651-1415. AMSCO Hexane, Heptane and a complete line of extraction solvents.

OKLAHOMA

Tulsa 74102 — GETTY REFINING AND MARKETING CO., Solvents unit, 1437 South Boulder, P.O. Box 1650. Ph. 918-560-6187. Telex: 49-2405 GETTYTUL. Skellysolve for the extraction industry.

TEXAS

Borger 79007 — PHILLIPS CHEMICAL CO., Petrochemicals, Drawer O. Ph. 800-858-4327, 800-692-4045 (TX). Extraction solvents, including Phillips High-Purity Normal Hexane and Normal Hexane(s), narrow range heptane, cyclo-hexane, AOCS and USP petroleum ethers, and other high-purity aliphatic solvents.

Houston 77012 — CHARTER CHEMICALS, Charter International Oil Co., P.O. Box 5008 (head office). Ph. 713-923-3300. Also offices in Atlanta, GA; Chicago, IL; Cleveland, OH; Long Beach, CA; Louisville, KY; and Charter-I.P.C., Denver and St. Louis. All types of aromatic, intermediate and aliphatic solvents marketed under the trademark Chartersol. Also n-hexane, n-heptane, n-octane, ethyl-benzene and propylene.

Houston 77001 — EXXON COMPANY, U.S.A., P.O. Box 2180. Ph. 713-656-4574. Headquarters.

PHILIPPINES

Bagong Ilog, Pasig, M. Manila — UNIVERSAL ROBINA CORP., E. Rodriguez Ave., Pasig, M. Manila. Ph. 682-5402. Hexane.

WINTERIZATION

CALIFORNIA

Tiburon 94920 — SULLIVAN SYSTEMS INC. DIV; The DeLAVAL SEPARATOR CO., 55 Main St., P.O. Box 158, Ph. 415-435-3855. Telex: 330467.

ILLINOIS

Chicago 60602 — WURSTER & SANGER, div. of Jacobs Engineering Co., 22 W. Madison St. Ph. 312-332-5205. Telex 254-355 JACOBS CGO. Complete oil winterization plants.

Des Plaines 60018 — EMI CORP., O'Hare Office Center, 3166 Des Plaines Ave. Ph. 312-827-3164. Telex EMI DSP 726 354. Batch and continuous partially hydrogenated soy oil, cottonseed and sunflower oil winterization.

NEW JERSEY

Leonia 07605 — NEUMUNZ INC., 117 Fort Lee Rd. Ph. 201-592-0980. Telex 135 170 Neumunz Leon.

PENNSYLVANIA

Pittsburgh 15230 — GULF RESEARCH & DEVELOPMENT CO. DIV., GULF OIL CORP., P.O. Drawer 2038, Ph. 412-665-6115. Telex: 866277; Cable: GULFOIL PITTSBURGH (PA).

BELGIUM

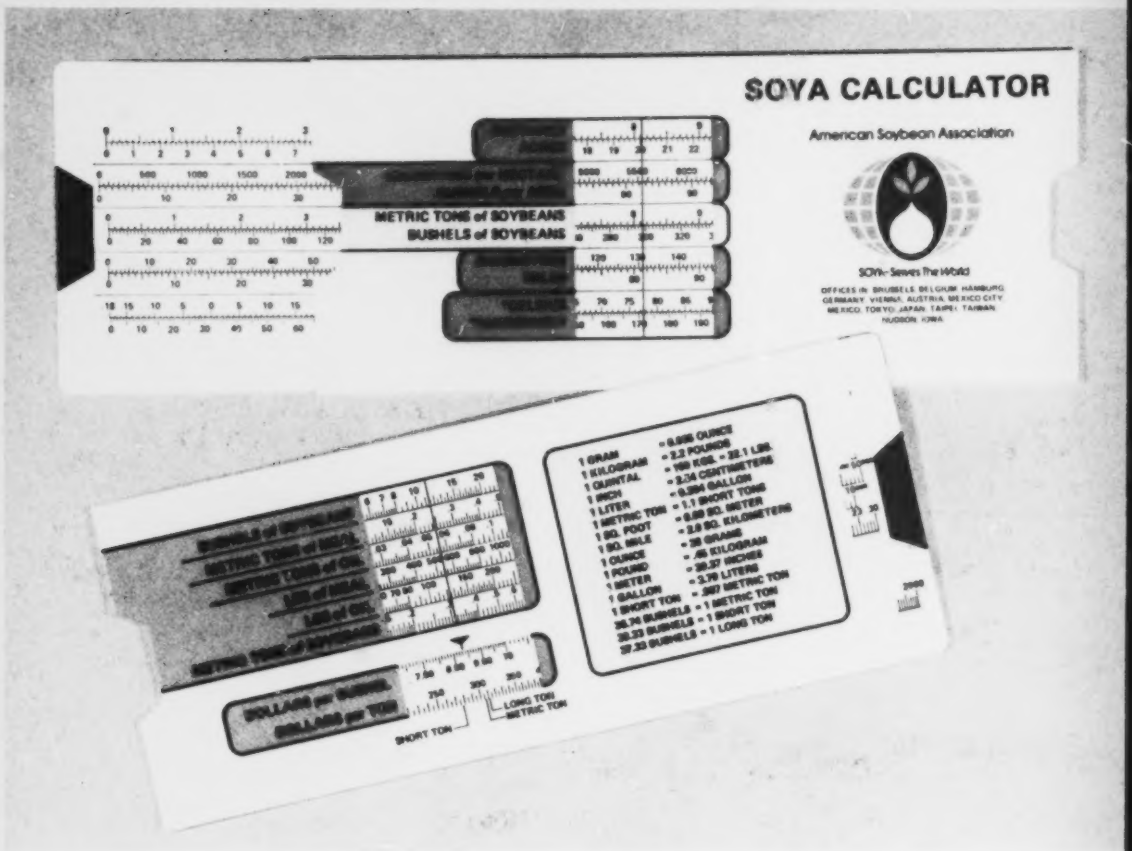
2520-Edegem-Antwerp — EXTRACTION DE SMET S.A., 265 Prins Boudewijnlaan. Ph. 031 49.42.40. Telex 31.824.

ISRAEL

Petah-Tikva — H.L.S. LTD., P.O. Box 193. Ph. 927171. Telex 341859.

MEXICO

Mexico 14, D.F., — DESARROLLO INDUSTRIAL INGENIEROS S.A., Casma #515. Ph. 567-38-25, 567-95-29. Continuous.



Conversions Made Simple

This slide calculator was designed especially for use in the soybean industry and will make the following comparisons:

- Hectares and Acres
- Kilograms per Hectare and Bushels per Acre
- Metric Tons of Soybeans and Bushels of Soybeans
- Kilometers and Miles
- Celsius and Fahrenheit
- Dollars per Bushel and Dollars per Short Ton
- Dollars per Bushel and Dollars per Metric Ton
- Dollars per Bushel and Dollars per Long Ton

It will also calculate bushels of soybeans to the following:

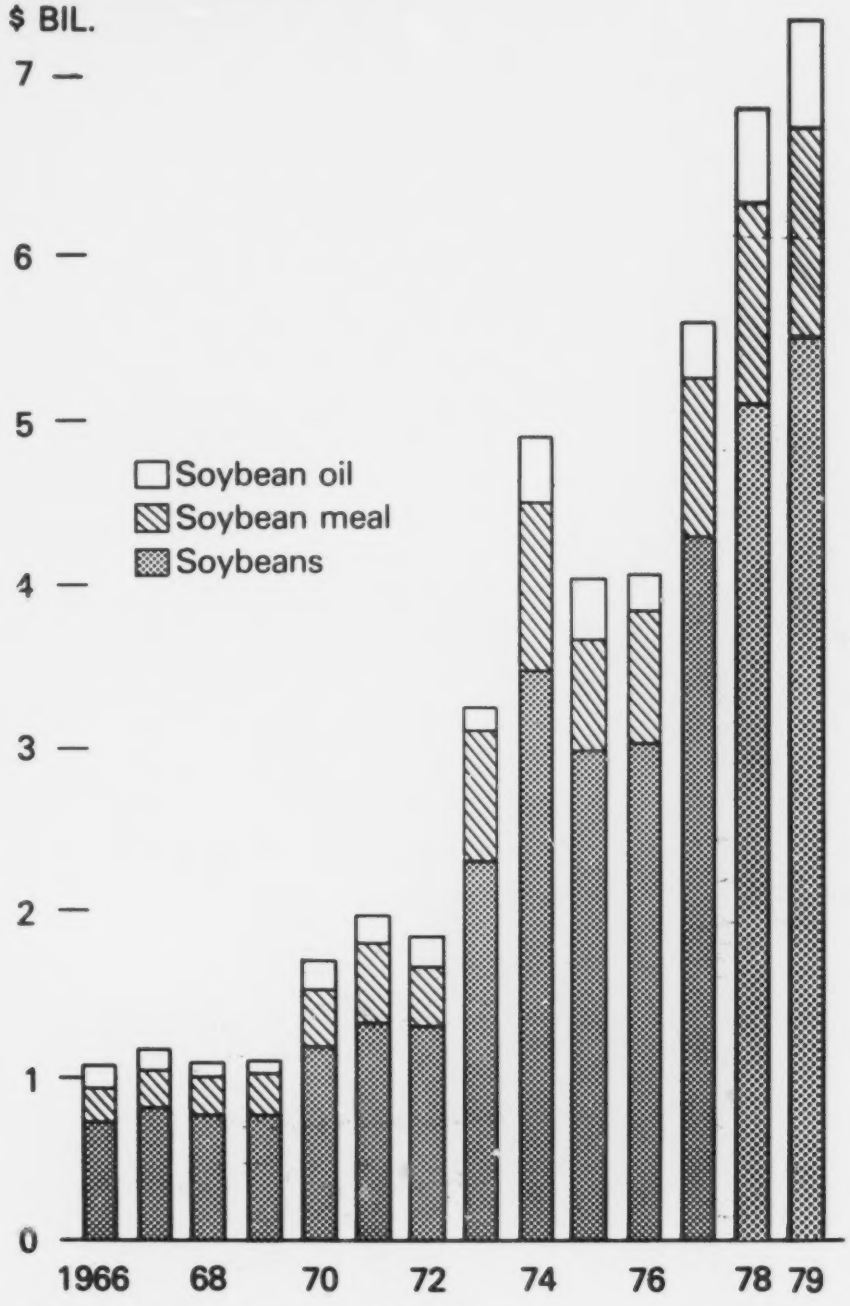
- Metric Tons of Meal, Metric Tons of Oil, Lbs. of Meal, Lbs. of Oil, Metric Tons of Soybeans

The calculator lists the conversion factors for many measurements frequently used. Calculator size: 3″ × 7″. Printed in multiple colors. $2.00 each, postpaid.

Order from **General Sales, American Soybean Association, Box 27300, St. Louis, MO 63141.**

BEST AVAILABLE COPY

U.S. EXPORTS OF SOYBEANS AND PRODUCTS



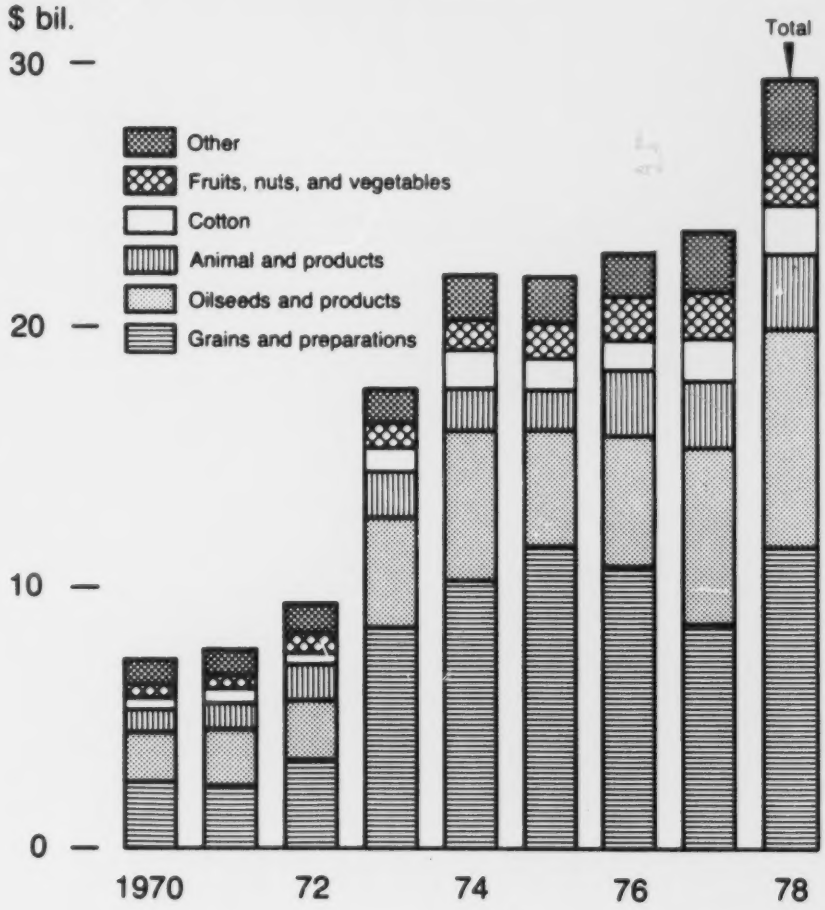
Fiscal year beginning October 1. 1979 Estimate

USDA

NEG. FAS 2410-C-78 (10)

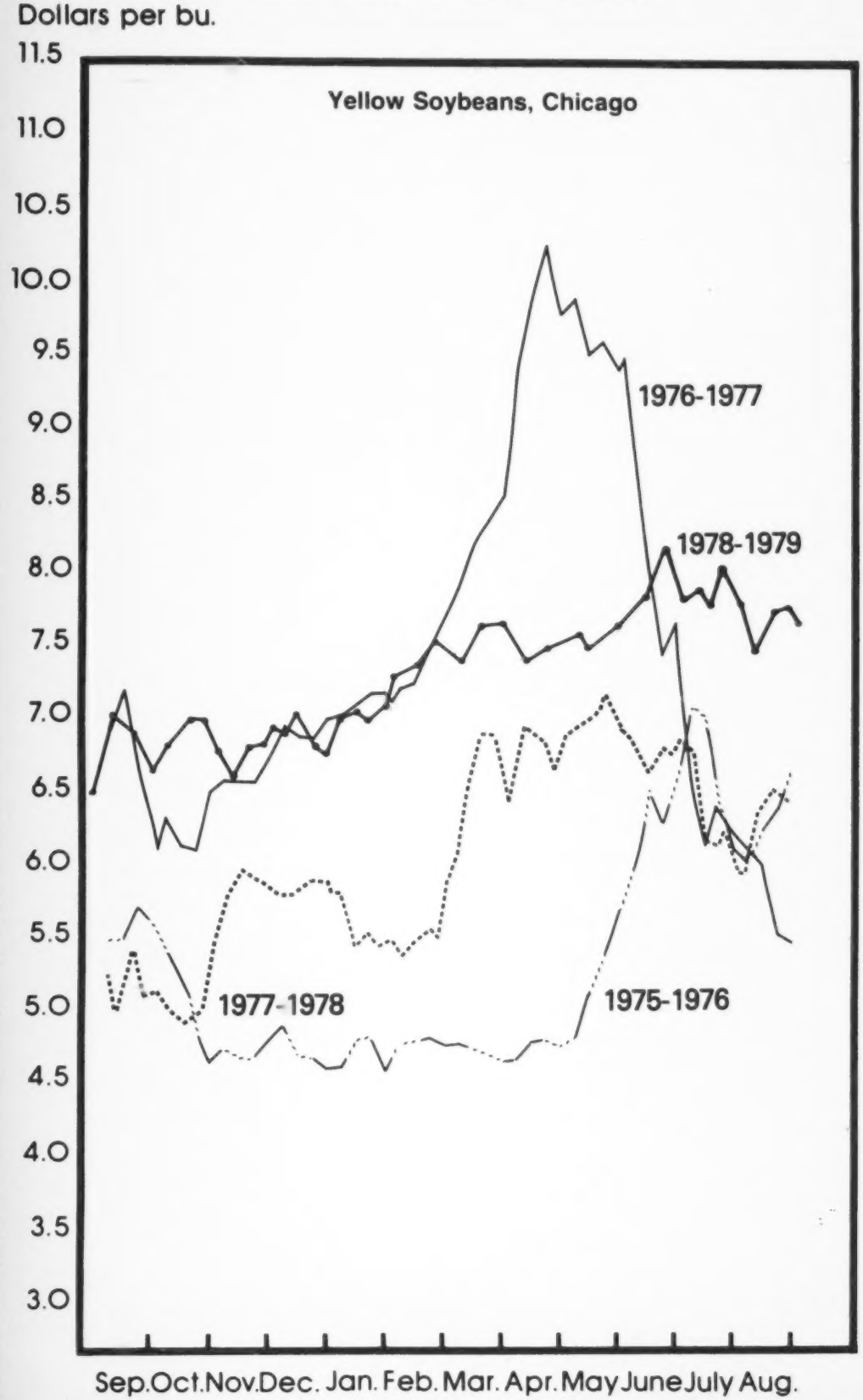
Chart 176

U.S. Agricultural Exports: Value by Commodity Group

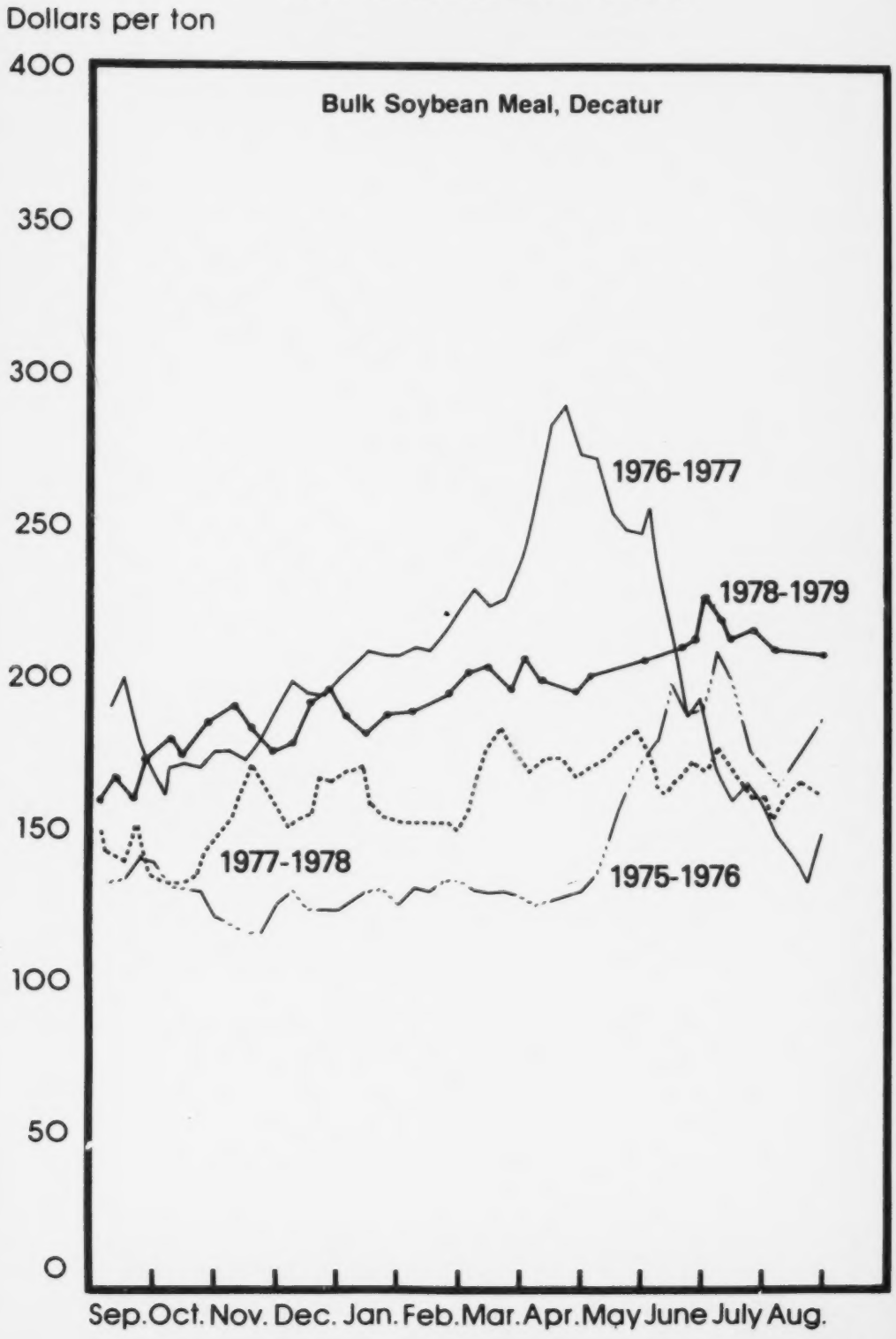


1978 preliminary.

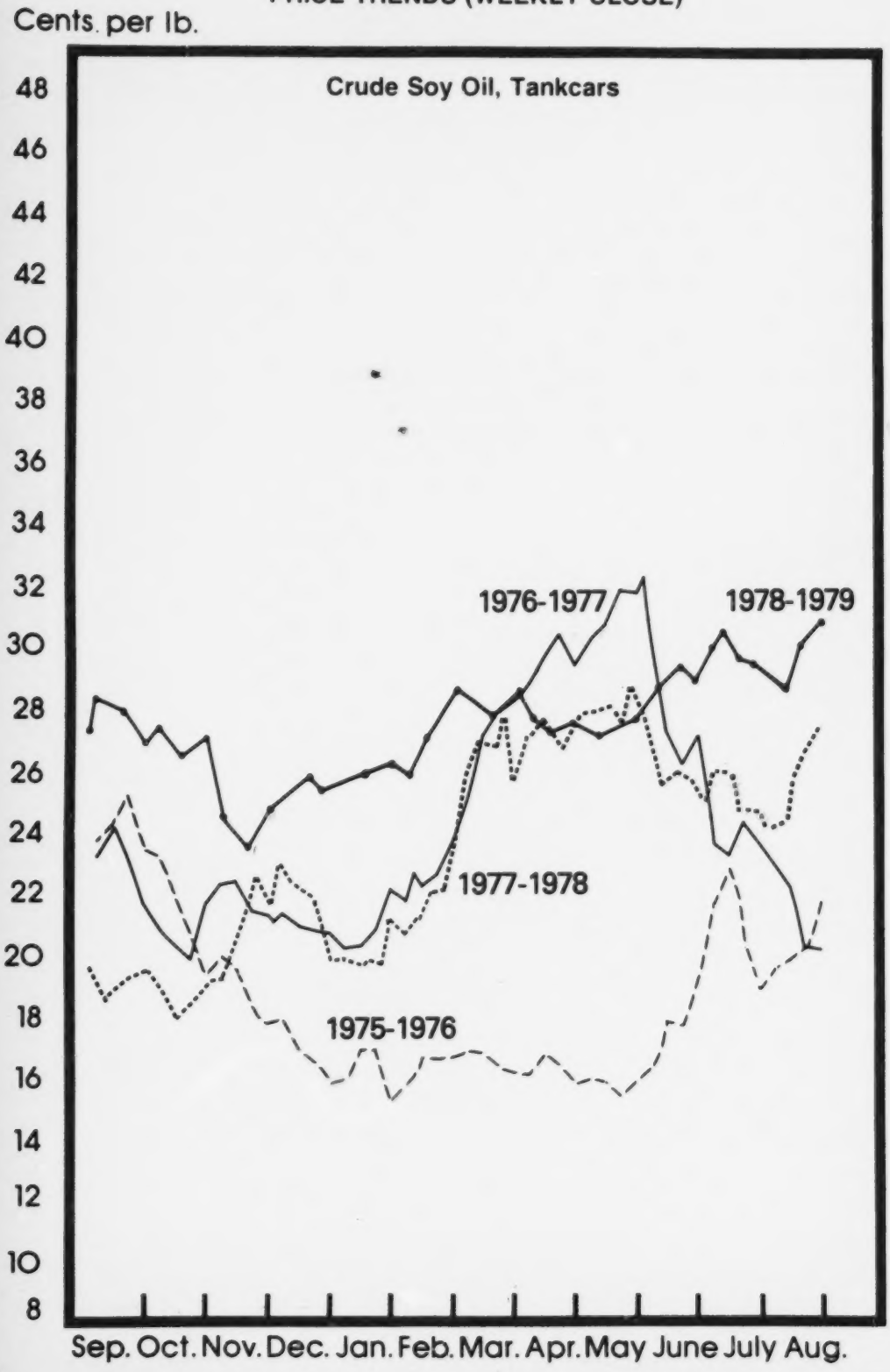
PRICE TRENDS (WEEKLY CLOSE)



PRICE TRENDS (WEEKLY CLOSE)



PRICE TRENDS (WEEKLY CLOSE)



METRIC CONVERSION TABLES

1 inch	=	2.54 centimeters	1 meter	=	39.37 inches
1 foot	=	30.48 centimeters	1 meter	=	3.28 feet
1 foot	=	0.30 meters	1 kilometer	=	3,281 feet
1 mile	=	1.61 kilometers	1 kilometer	=	0.62 miles
1 acre	=	.40 hectares	1 hectare	=	2.5 acres
1 pound	=	453.59 grams	1 kilogram	=	2.2 pounds
1 gallon	=	3.78 liters	1 bushel	=	36.87 liters

(SOYBEANS)

1 bushel of soybeans = 60 pounds
1 short ton = 33.33 bushels
1 short ton = .90 metric tons
1 long ton = 37.33 bushels
1 bushel of soybeans = 10.7 pounds of crude soy oil
1 bushel of soybeans = 47.5 pounds of soybean meal
1 short ton of soybean meal = 42.08 bushels of soybeans
1 long ton of soybean meal = 47.13 bushels of soybeans

1 metric ton = 36.74 bushels
1 metric ton = 1,000 kilograms
2,205 pounds
1 metric ton of soybean meal = 46.39 bushels of soybeans
79.2% of a bushel of soybeans is manufactured into soybean meal
17.8% of a bushel of soybeans is manufactured into soy oil
3% is manufacturing loss
1 bushel of soybeans = 39 pounds of soy flour, 20 pounds of concentrate or 11.8 pounds of isolates.

TEMPERATURE CONVERSIONS

Celsius = 5/9 (F − 32)
Fahrenheit = (C × 1.8) + 32

WORLD FATS & OILS PRODUCTION

CALCULATED PRODUCTION 1/1971-74; 2/1975-80 (IN 1,000 METRIC TONS)

	1971	1972	1973	1974	3/ 1975-76	1976-77	1977-78	1978-79	Previous 7/ 1979-80	8/ Current
EDIBLE VEG. OILS										
COTTONSEED	2,654	2,929	3,111	3,168	2,767	2,907	3,217	3,041	3,291	3,331
PEANUT	3,377	3,535	2,921	3,091	3,594	3,190	3,124	3,469	3,492	3,452
SOYBEAN	6,266	6,846	7,588	9,542	10,168	9,142	11,287	12,176	14,570	14,794
SUNFLOWER	3,612	3,638	3,548	4,521	3,669	3,741	4,721	4,626	5,425	5,467
RAPESEED	2,508	2,596	2,493	2,475	2,964	2,516	2,743	3,717	3,542	3,647
SESAME	721	656	612	635	630	600	649	660	652	663
SAFFLOWER	226	300	239	210	329	211	254	322	327	328
OLIVE 4/1971-74	1,437	1,559	1,437	1,526	1,806	1,333	1,633	1,537	1,374	1,354
CORN	289	292	309	311	408	410	436	445	455	455
TOTAL	21,090	22,351	22,258	25,479	26,335	24,050	28,064	29,993	33,128	33,491
PALM OILS 5/1971-74										
COCONUT	2,514	2,878	2,444	2,235	3,393	3,044	3,148	2,986	3,275	3,275
PALM KERNEL	465	457	434	488	503	549	574	602	662	662
PALM	1,937	2,146	2,230	2,610	3,050	3,333	3,547	3,959	4,300	4,340
BABASSU	72	107	105	105	122	132	140	132	100	130
TOTAL	4,988	5,588	5,213	5,438	7,068	7,058	7,409	7,679	8,337	8,407
INDUSTRIAL OILS										
LINSEED	1,234	860	720	755	737	686	919	750	961	893
CASTOR	346	320	404	493	301	335	399	382	400	406
OITICICA	20	14	1	11	15	14	14	14	14	14
TUNG	143	136	110	96	111	100	98	105	100	100
OLIVE RES. 6/1971-74	131	132	139	146	186	153	171	139	128	126
TOTAL	1,874	1,462	1,374	1,501	1,350	1,288	1,601	1,390	1,603	1,539
ANIMAL FATS										
BUTTER (FAT CON)	4,115	4,389	4,533	4,502	4,800	4,944	4,984	5,095	5,100	5,100
LARD	4,315	4,259	4,134	4,379	3,380	3,556	3,669	3,699	3,800	3,800
TALLOW, GREASE	4,672	4,584	4,428	5,121	5,471	5,815	5,949	5,888	5,865	5,865
TOTAL	13,102	13,232	13,095	14,002	13,651	14,315	14,602	14,682	14,765	14,765
MARINE OILS										
WHALE	70	65	55	40	15	15	15	15	15	15
SPERM WHALE	135	125	125	120	82	66	57	55	55	55
FISH (INC LIVER)	1,173	934	809	1,001	983	980	1,021	1,011	1,015	1,015
TOTAL	1,378	1,124	989	1,161	1,080	1,061	1,093	1,081	1,085	1,085
WORLD TOTAL	42,432	43,757	42,929	47,581	49,484	47,772	52,769	54,825	58,918	59,287

1/ Years indicated are those in which most of given oil was produced. Includes oil equivalent of seed production. 2/ Split year includes northern hemisphere crops harvested in the late months of the first year shown combined with southern hemisphere and certain northern hemisphere crops harvested in the early months of the following year. 3/ Oilseed meal and oil production calculated from assumed extraction rates applied to that portion of each crop available for crushing and/or export represents potential not actual production. 4/ Excludes olive residue oil. 5/ Estimated on basis of exports and other information. 6/ Includes quantities of refined oil for edible purposes. 7/ Estimated. 8/ Forecast. Source: Commodity Programs, Foreign Agricultural Service, U. S. Department of Agriculture.

WORLD SOYBEAN PRODUCTION

AREA AND PRODUCTION IN SPECIFIED COUNTRIES AND THE WORLD 1974/75-1979/80 1/

Continent and Country	Area 2/ (In 1,000 hectares)						Production (In 1,000 metric tons)					
	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80 3/	1974/75	1975/76	1976/77	1977/78	1978/79	1979/80 3/
North America:												
Canada	168	158	153	202	285	283	301	367	250	527	516	672
Mexico	255	312	170	305	215	400	420	625	280	470	330	600
United States 4/	20,777	21,683	19,975	23,315	25,634	28,543	33,102	42,113	35,042	47,947	50,898	61,715
South America:												
Argentina	356	434	660	1,200	1,700	2,000	485	695	1,400	2,700	3,800	4,200
Brazil	5,824	6,290	7,040	7,600	8,035	8,500	9,892	10,810	12,200	10,200	10,200	14,500
Bolivia	6	12	7	19	22	22	12	15	9	26	26	26
Chile	1	2	1	1	1	1	2	2	1	1	1	1
Colombia	57	88	38	69	81	80	169	75	103	135	137	145
Ecuador	8	11	15	17	20	25	9	14	19	21	27	30
Paraguay 5/	151	173	258	272	365	433	220	284	375	280	450	650
Peru	3	3	3	3	3	3	8	3	3	4	6	6
Uruguay	14	8	11	22	35	60	15	9	12	30	45	78
Europe:												
Bulgaria	25	36	56	55	99	100	18	80	90	90	120	160
France	4	1	2	1	4	18	5	3	2	2	5	18
Hungary	15	25	36	28	25	24	30	38	54	50	40	38
Romania	238	121	155	171	202	220	298	213	213	191	227	250
Spain	25	11	4	4	10	15	39	14	6	8	19	29
Yugoslavia	9	15	31	32	34	25	14	30	48	67	63	45
Soviet Union:	830	810	762	786	815	840	360	780	480	540	634	600

Continent and Country	Area 2/ 1974/75	1975/76	1976/77	1977/78	1978/79	1979/80 3/	Production 1974/75	1975/76	1976/77	1977/78	1978/79	1979/80 3/
			(In 1,000 hectares)						(In 1,000 metric tons)			
Africa:												
Egypt	—	4	7	14	34	42	2	5	11	27	79	106
Ethiopia	10	10	10	10	10	10	6	6	6	6	6	6
Nigeria 6/	4	4	4	5	5	5	1	1	3	3	3	3
South Africa 5/7/	13	22	25	25	26	26	20	18	28	40	26	35
Tanzania 8/	5	5	5	5	5	5	3	3	3	3	3	3
Uganda	5	5	5	5	5	5	3	3	3	3	3	3
Zaire	2	2	2	2	2	2	1	1	1	1	1	1
Asia:												
Burma	21	21	25	23	23	23	15	14	14	15	16	16
China:												
Mainland	8,800	9,100	9,000	9,100	9,200	9,200	9,500	10,000	9,000	9,500	10,500	10,500
Taiwan	44	41	36	24	25	25	67	62	53	41	45	45
India	90	90	—	250	300	410	35	70	100	150	200	250
Indonesia	768	752	646	663	741	710	589	590	522	523	571	570
Iran	30	53	57	42	67	70	18	70	102	86	115	130
Japan 5/	93	87	83	79	127	130	133	126	110	111	190	192
Kampuchea	4	4	4	4	4	4	4	4	4	4	4	4
Korea, North	390	395	400	300	300	300	280	290	300	310	320	330
Korea, Republic of 5/	286	274	248	251	247	280	319	311	295	319	293	355
Philippines	3	8	11	10	10	10	2	6	9	8	8	8
Thailand 5/	112	102	112	110	120	130	114	114	90	90	120	135
Turkey	4	6	6	5	4	4	9	7	8	6	5	5
Vietnam 9/	42	43	43	41	45	45	18	18	18	20	22	22
Oceania:												
Australia	26	26	35	50	55	60	74	45	55	76	91	100
World Total	39,518	41,247	40,141	45,115	48,940	53,088	56,612	67,934	61,322	74,631	80,165	96,582

1/ Split years shown refer to years of harvest, Northern Hemisphere crops which are harvested in the first part of the split year (for example September-October 1975) and Southern Hemisphere crops which are harvested in the first part of the following year (for example March-April 1976). In this example, the split year designation would be 1975/76. 2/ Figures refer to harvested areas as far as possible. 3/ Estimated. 4/ Hectare harvested for beans. 5/ Planted area. 6/ Quantities purchased by the Nigerian Marketing Board for exports. 7/ European farms only. 8/ Sales. 9/ Includes former South Vietnam.

Source: Foreign Agricultural Service, U.S. Department of Agriculture.

CANADIAN SOYBEAN PRODUCTION

Estimated Acreage, Production, Farm Price and Value 1950-79

Crop Year 1/	Seeded acreage (acres)	Avg. yield per seeded acre (bu.)	Production (Th. bu.)	Avg. farm price $ er (bu.)	Total farm value (Th. $)
1950-51	142,000	23.4	3,323	2.55	8,474
1955-56	214,000	26.4	5,650	2.09	11,808
1960-61	226,500	22.1	5,001	2.03	11,521
1961-62	212,000	31.3	6,631	2.25	14,920
1962-63	221,000	29.9	6,608	2.48	16,388
1963-64	228,000	21.9	5,002	2.80	14,006
1964-65	231,000	30.2	6,976	2.87	20,021
1965-66	265,000	30.3	8,030	2.70	21,681
1966-67	279,000	32.3	9,012	3.00	27,036
1967-68	290,000	27.9	8,091	2.68	21,684
1968-69	295,000	30.6	9,027	2.42	21,845
1969-70	322,000	23.8	7,664	2.61	20,003
1970-71	335,000	31.0	10,398	2.78	28,906
1971-72	367,000	28.0	10,276	3.17	32,575
1972-73	405,000	34.0	13,770	5.73	78,902
1973-74	470,000	31.0	14,570	6.17	89,897
1974-75	415,000	24.8	10,290	6.08	62,563
1975-76	390,000	34.6	13,478	4.92	66,312
1976-77	377,800	24.5	9,250	7.30	67,525
1977-78	550,000	38.7	21,311	—	—
1978-79	750,000	25.3	18,944	—	—
1979-80 2/	700,000	33.0	23,100	—	—

1/ Most of the soybean crop is grown in Ontario but there were also small acreages in other provinces in the years 1942-43 to 1945-46. The totals for Canada include this production. 2/ Preliminary. Compiled from records of the Dominion Bureau of Statistics. U.S. Department of Agriculture, Foreign Agricultural Service, Oilseeds and Products.

CANADIAN SOYBEAN PRODUCTION AND UTILIZATION 1950-79

Year beg. Aug. 1	Production Th. bu.	Imports Th. bu.	Supplies Th. bu.	Exports of beans Th. bu.	Processed for oil and meal Th. bu.	Soy oil produced Th. lb.	Soybean oilcake produced Short tons
1950	3,323	4,723	8,046	—	7,393	72,676	176,343
1955	5,650	8,309	13,959	1,492	11,799	124,171	279,095
1960	5,001	12,345	17,346	1,381	16,279	173,837	380,558
1961	6,631	13,329	19,960	3,671	16,916	176,821	396,067
1962	6,608	14,711	21,319	2,445	17,862	183,592	418,526
1963	5,002	15,656	20,658	1,614	18,606	192,655	441,526
1964	6,976	16,457	23,433	3,179	19,541	201,057	464,888
1965	8,030	17,058	25,088	2,152	20,654	205,296	491,440
1966	9,012	16,295	25,307	3,599	19,876	201,522	474,365
1967	8,091	13,328	21,417	1,571	19,846	198,999	472,321
1968	9,027	12,469	21,496	1,123	20,054	204,027	476,328
1969	7,679	17,430	25,109	1,111	23,679	240,564	558,743
1970	10,398	15,703	26,101	768	23,443	242,506	548,945
1971	10,276	14,774	25,050	1,366	23,314	241,258	544,351
1972	13,770	10,973	24,743	1,064	22,507	218,531	532,382
1973	14,570	12,506	27,076	1,061	23,601	240,675	554,865
1974	10,290	12,650	22,940	349	23,336	238,856	550,250
1975	13,478 2/	12,975	26,453	821	26,565	270,492	627,724
1976	9,250 3/	6,229	15,479	2,583	25,169	254,888	599,002
1977	21,311	9,643	30,954	2,358	26,754	272,488	624,563
1978	18,944	9,893 4/	28,837	2,765	27,286	284,394	635,696
1979 1/	23,100	—	—	—	29,400	299,874	686,184

1/ Preliminary. Compiled from records of the Dominion Bureau of Statistics. U.S. Department of Agriculture, Foreign Agricultural Service, Oilseeds and Products Division. 2/ August-June. 3/ January-June. 4/ August-May.

U.S. SOYBEAN PRODUCTION

Soybeans: Acreage, yield and production, 1925-79

Year	Acres planted			Acres harv.			Average yield per acre harv.		Total prod.	
	Grown alone	Inter-planted*	Equivalent solid†	for beans†	for hay	Grazed or plowed under	for beans	for hay	for beans	for hay
	Thousand acres			Thousand acres			Bushels	Tons	Thous. bushels	Thous. tons
1925	1539	476	1785	415	1175	195	11.7	1.01	4875	1185
1930	3072	786	3473	1074	2062	337	13.0	.94	13929	1938
1935	6966	1028	7503	2915	4044	544	16.8	1.34	48901	5422
1940	10487	2589	11782	4807	4819	2156	16.2	1.34	78045	6450
1945	13056	1505	13807	10740	1940	1127	18.0	1.26	193167	2451
1950	15048	1184	15640	13807	963	870	21.7	1.31	299249	1260
1955	19674	617	19981	18620	705	656	20.1	1.28	373682	910
1960	24440	398	24649	23655	449	545	23.5	1.44	555085	646
1961	27787	332	27981	27003	424	549	25.2	1.47	678554	624
1962	28418	290	28593	27608	475	514	24.2	1.37	669186	650
1963	29462	278	29598	28615	547	471	24.5	1.38	699165	757
1964	31721	234	31794	30793	531	525	22.8	1.39	700921	—
1965	35227	—	—	34449	—	—	24.5	—	845608	—
1966	37294	—	—	36546	—	—	25.4	—	928481	—
1967	40819	—	—	39805	—	—	24.5	—	976439	—
1968	42265	—	—	41391	—	—	26.7	—	1106958	—
1969	42534	—	—	41337	—	—	27.4	—	1133120	—
1970	43082	—	—	42249	—	—	26.7	—	1127100	—
1971	43476	—	—	42705	—	—	27.5	—	1175989	—
1972	46886	—	—	45683	—	—	27.8	—	1270630	—
1973	56549	—	—	55667	—	—	27.7	—	1547165	—
1974	52479	—	—	51341	—	—	23.2	—	1214802	—
1975	54550	—	—	53579	—	—	28.9	—	1547383	—
1976	50226	—	—	49358	—	—	26.1	—	1287560	—
1977	58760	—	—	57612	—	—	30.6	—	1761755	—
1978	64383	—	—	63343	—	—	29.5	—	1870181	—
1979 1/	71586	—	—	70530	—	—	32.2	—	2267647	—

*Grown with other crops. †Equivalent solid acreage (acreage grown alone with an allowance for acreage grown with other crops). 1/ Preliminary. Source: Economics, statistics, and Cooperatives Service.

U.S. SOYBEAN ACREAGE, YIELD AND PRODUCTION BY STATE

Acres Planted, Soybeans Grown Alone (Thousand Acres)

	1930	1940	1950	1960	1970	1975	1976	1977	1978	1979
Alabama	150	275	150	158	642	1300	1200	1650	2000	2300
Arkansas	76	205	646	2472	4393	4750	4360	4650	4750	5200
Delaware	25	48	74	182	165	228	208	230	250	270
Florida—not estimated prior to 1949			9	35	188	291	259	334	420	460
Georgia	56	100	78	106	550	1190	890	1250	1750	2150
Illinois	720	3011	4108	5013	6848	8350	7600	8900	9250	9800
Indiana	443	1418	1765	2458	3300	3650	3300	3900	4200	4500
Iowa	124	1481	1960	2615	5709	7000	6470	7250	7600	8200
Kansas	27	78	409	594	1074	1100	900	1020	1520	1580
Kentucky	110	180	202	260	582	1150	1100	1400	1450	1720
Louisiana	34	110	89	258	1730	2000	2280	2750	2900	3250
Maryland	33	65	95	228	216	335	300	330	350	390
Michigan	7	187	122	229	539	615	570	730	810	980
Minnesota—not estimated prior to 1933		251	1200	2118	3140	3700	3050	3850	4100	5300
Mississippi	85	332	504	983	2358	3230	3335	3750	3900	4200
Missouri	422	564	1225	2387	3546	4450	4300	4730	5600	6000
Nebraska	3	20	50	165	824	1220	995	1150	1270	1630
New Jersey	3	31	37	42	52	104	140	185	210	227
New York	3	21	9	6	6	11	12	21	23	24
North Carolina	230	360	410	646	981	1500	1200	1450	1750	2000
North Dakota not estimated prior to 1944			44	182	184	180	150	180	175	210
Ohio	112	1020	1136	1514	2434	3120	2900	3400	3780	4050
Oklahoma	25	18	35	130	200	245	260	360	340	350
Pennsylvania	11	82	48	26	30	54	52	70	65	85
South Carolina	20	32	94	535	1550	1420	1230	1350	1510	1700
South Dakota	—	4	72	102	253	345	280	320	400	650
Tennessee	190	167	248	478	1281	1950	1920	2320	2530	2700
Texas	—	21	10	10	170	395	375	800	800	860
Virginia	120	128	202	334	372	451	410	450	460	500
Wisconsin	14	215	77	102	155	216	160	200	220	300

Acres Harvested for Beans (Thousand Acres)

	1930	1940	1950	1960	1970	1975	1976	1977	1978	1979
Alabama	8	11	73	135	600	1260	1170	1600	1950	2250
Arkansas	9	63	581	2442	4400	4700	4320	4600	4700	5150
Delaware	15	25	63	177	156	225	205	225	245	265
Florida	—	—	7	33	184	281	253	327	410	453
Georgia	10	13	26	75	475	1160	870	1090	1680	2100
Illinois	410	1995	3989	4973	6800	8320	7560	8850	9190	9720
Indiana	151	723	1652	2415	3278	3630	3280	3900	4180	4420
Iowa	66	709	1930	2599	5680	6970	6450	7080	7550	8170
Kansas	7	26	397	586	930	1080	865	990	1490	1560
Kentucky	9	31	126	199	530	1100	1070	1320	1410	1660
Louisiana	16	15	37	216	1688	1920	2250	2680	2840	3200
Maryland	5	19	67	215	213	330	295	325	345	385
Michigan	1	77	114	221	500	610	565	720	800	970
Minnesota	—	53	1148	2090	3030	3650	3020	3770	4060	5230
Mississippi	12	39	358	916	2580	3120	3250	3650	3800	4100
Missouri	138	109	1209	2344	3465	4370	4200	4650	5540	5930
Nebraska	—	4	50	164	812	1200	980	1130	1250	1610
New Jersey	—	5	20	33	54	102	138	177	206	225
New York	—	14	7	3	6	11	12	19	22	23
North Carolina	128	190	297	545	867	1420	1120	1320	1680	1950
North Dakota	—	—	41	176	181	149	147	175	173	206
Ohio	31	561	1090	1499	2550	3100	2880	3380	3750	4030
Oklahoma	8	2	23	121	185	237	250	340	315	330
Pennsylvania	—	14	24	7	28	52	50	67	62	82
South Carolina	9	11	62	494	1010	1380	1190	1300	1470	1660
South Dakota	—	1	70	100	247	342	271	315	390	635
Tennessee	20	19	168	394	1150	1850	1800	2200	2420	2620
Texas	—	3	—	75	158	370	347	760	745	805
Virginia	17	49	152	311	339	433	398	440	455	496
Wisconsin	2	25	33	97	153	207	152	192	215	295

Average Yield per Acre Harvested for Beans (Bushels)

	1930	1940	1950	1960	1970	1975	1976	1977	1978	1979
Alabama	5.0	6.5	19.0	24.0	23.0	24.5	24.0	21.0	21.0	25.0
Arkansas	7.5	12.0	21.5	21.0	22.5	25.0	19.0	23.0	24.5	28.0
Delaware	6.0	12.0	14.0	24.0	21.0	25.0	24.0	24.0	28.0	30.0
Florida	—	—	19.0	26.0	28.0	24.0	26.0	25.0	25.0	29.0
Georgia	5.5	7.0	11.0	17.0	23.0	25.5	23.5	20.0	.5	28.0
Illinois	17.0	17.5	24.0	26.0	31.0	36.0	33.0	38.0	33.5	38.5
Indiana	14.0	13.0	22.5	27.0	31.0	33.5	34.0	37.0	34.5	36.0
Iowa	15.5	20.0	22.0	25.5	32.5	34.0	31.0	35.5	38.5	38.0
Kansas	7.5	12.0	18.0	21.5	15.0	21.0	15.0	28.5	18.0	26.5
Kentucky	7.5	13.0	17.5	22.0	27.0	27.0	27.0	31.0	30.0	32.5
Louisiana	10.5	13.5	18.0	24.0	24.0	25.0	28.0	23.5	25.0	28.0
Maryland	6.5	13.5	17.0	26.0	24.0	25.0	25.0	27.0	32.0	30.0
Michigan	10.0	16.5	20.0	20.0	26.5	26.0	20.5	30.0	24.0	29.5
Minnesota	—	15.0	15.5	19.5	26.0	27.0	22.0	35.5	36.0	32.0
Mississippi	6.5	10.0	25.0	22.0	22.5	22.5	22.0	21.5	21.5	29.0
Missouri	7.0	13.0	23.0	21.5	25.5	26.0	20.0	32.0	28.5	31.5
Nebraska	—	14.0	24.0	28.0	22.0	27.0	20.0	36.0	34.0	34.0
New Jersey	—	14.5	20.5	24.5	25.0	26.0	24.0	24.0	31.0	30.0
New York	—	13.0	18.0	17.0	20.0	27.0	26.0	23.0	23.0	26.0
North Carolina	10.5	12.0	16.0	22.5	24.0	23.5	22.0	22.0	24.5	23.5
North Dakota	—	—	10.5	13.0	15.0	19.5	12.5	20.0	27.5	27.0
Ohio	14.0	16.0	22.5	24.5	28.5	33.0	33.0	35.5	33.5	36.0
Oklahoma	6.5	7.5	17.0	20.0	18.0	22.0	22.0	23.0	17.0	23.0
Pennsylvania	—	16.0	17.5	23.0	32.0	28.0	29.0	31.0	31.5	32.0
South Carolina	6.5	6.5	12.0	19.0	20.0	22.0	18.0	20.5	22.0	24.0
South Dakota	—	12.0	12.5	17.0	17.5	25.0	17.0	30.5	30.5	33.0
Tennessee	7.5	8.5	21.0	22.5	23.0	25.0	22.5	23.5	23.5	27.0
Texas	—	9.5	—	27.0	28.0	25.0	26.0	26.5	26.5	26.0
Virginia	7.0	15.5	19.0	22.5	20.0	25.0	20.5	19.0	28.0	28.5
Wisconsin	11.5	17.5	15.0	17.0	24.0	25.5	22.0	35.0	32.0	34.0

Total Production of Beans (Thousand Bushels)

	1930	1940	1950	1960	1970	1975	1976	1977	1978	1979
Alabama	40	72	1387	3240	13800	30870	28080	33600	40950	58500
Arkansas	68	756	12492	51282	99000	117500	82080	105800	115150	139050
Delaware	90	300	82	4248	3276	5625	4920	5400	6860	7685
Florida	—	—	133	858	5152	6744	6578	8175	10250	11700
Georgia	55	91	286	1275	10925	29580	20445	21800	29400	57400
Illinois	6970	34912	95736	129298	210800	299520	249480	336300	307865	368600
Indiana	2114	9339	37170	65205	101618	121605	111520	144300	144210	158400
Iowa	1023	14180	42460	66274	184600	236980	199950	251340	290675	309700
Kansas	52	312	7146	12599	13950	22680	12975	28215	26820	41580
Kentucky	68	403	2205	4378	14310	29700	28890	40920	42300	51200
Louisiana	168	202	666	5184	40512	48000	63000	62980	71000	89600
Maryland	32	256	1139	5590	5112	9240	7375	8775	11040	12320
Michigan	10	1270	2280	4420	13250	15860	11583	21600	19200	28130
Minnesota	—	795	17794	40755	78780	98550	66440	133835	146160	168320
Mississippi	78	390	8950	20152	58050	70200	71500	78475	81700	107250
Missouri	966	1417	27807	50396	88358	113620	84000	148800	157890	189760
Nebraska	—	56	1200	4592	17864	32400	19600	40680	42500	56000
New Jersey	—	72	410	808	1350	2652	3312	4248	6386	6119
New York	—	182	126	51	120	297	312	437	506	575
North Carolina	1344	2280	4752	12262	20808	333370	24640	29040	41160	44400
North Dakota	—	—	430	2288	2715	2906	1838	3500	4758	5125
Ohio	434	8976	24525	36726	72675	102300	95040	119990	125625	144720
Oklahoma	52	15	391	2420	3330	5214	5500	7820	5355	7590
Pennsylvania	—	224	420	161	896	1456	1450	2077	1953	2480
South Carolina	58	72	744	9386	20200	30360	21420	26650	32340	38180
South Dakota	—	12	875	1700	4323	8550	4607	9608	11895	17110
Tennessee	150	162	3528	8865	26450	46250	40500	52170	56870	67600
Texas	—	28	—	2025	4424	9250	9022	20140	19743	23800
Virginia	119	760	2888	6998	6780	10825	8359	8360	12740	13365
Wisconsin	23	438	495	1649	3672	5279	3344	6720	6880	9610

Source: Economics, Statistics & Cooperatives Service, U.S. Department of Agriculture.

U.S. SOYBEAN PRODUCTION AND FARM DISPOSITION

1950-79 (In 1,000 Bushels)

Crop—	Production	Disposition on farms where grown	
		Used where produced	Sold from farms
1950	299,249	15,040	284,209
1955	373,682	16,899	356,783
1960	555,085	19,847	535,238
1961	678,554	20,635	657,919
1962	669,186	20,829	648,357
1963	699,165	21,015	678,150
1964	700,921	22,072	678,849
1965	845,608	22,825	822,786
1966	928,481	24,271	904,210
1967	976,439	24,013	952,426
1968	1,106,958	22,174	1,084,784
1969	1,133,129	21,145	1,111,975
1970	1,127,100	20,485	1,106,615
1971	1,175,989	21,904	1,154,085
1972	1,270,630	23,944	1,246,686
1973	1,547,165	24,089	1,523,076
1974	1,214,802	25,304	1,189,498
1975	1,547,383	21,055	1,526,328
1976	1,287,560	23,893	1,263,667
1977	1,761,755	25,427	1,736,328
1978	1,870,181	26,078	1,844,103
1979[1]	2,267,647	26,647	2,241,000

[1]Preliminary. Crop Reporting Board, ESCS, USDA. Disposition of a given year's production regardless of time of actual disposition. Estimates of farm disposition represent portions of the crop used or to be used for the designated purposes on farms where produced and do not include purchases by farmers from others for such purposes.

U.S. FARM MARKETINGS OF SOYBEANS

Percent of Open Market Farm Sales, by Month, 1969-78

Month	Crop Marketing Season									
	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
September	4.8%	4.4%	4.9%	3.3%	3.1%	3.7%	4.7%	8.3%	3.5%	6.9%
October	28.8	23.3	24.8	23.0	19.0	24.0	20.1	22.4	18.4	25.1
November	18.6	22.8	18.5	14.9	15.5	15.9	13.9	15.4	11.7	10.5
December	5.9	8.6	6.2	12.5	7.2	7.0	6.8	7.7	8.1	6.2
January	8.6	8.3	9.7	20.3	13.8	9.6	10.7	12.3	9.1	11.3
February	6.6	6.1	7.9	8.6	9.0	5.2	7.1	9.8	8.4	10.2
March	7.1	5.4	8.8	6.5	7.0	6.0	6.9	8.7	13.1	6.7
April	4.9	3.0	4.9	3.3	4.7	5.0	6.1	7.2	7.7	4.5
May	4.5	5.3	4.6	2.8	5.4	5.6	7.0	3.4	7.1	4.4
June	5.4	5.9	3.7	2.1	5.6	6.5	6.1	1.9	4.4	6.9
July	3.3	4.3	3.8	1.5	6.3	6.7	5.6	1.2	4.0	3.5
August	1.5	2.6	2.2	1.2	3.4	4.8	5.0	1.7	4.5	3.8
Year	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: Economics, Statistics, and Cooperatives Service, Statistics, USDA.

U.S. SOYBEAN CROP VALUE

Soybeans for Beans: Value of Production, U.S. and Specified States 1925-79 (In 1,000 Dollars)

Year	U.S.	Illinois	Iowa	Indiana	Ohio	Missouri	Minnesota	Arkansas
1925	11,430	3,077	260	872	571	905	—	69
1930	19,058	8,225	1,350	2,495	651	1,584	—	184
1935	35,565	18,983	4,510	4,879	1,771	1,140	76	604
1940	70,224	29,675	12,478	8,929	8,168	1,601	779	832
1945	402,234	156,416	73,143	58,889	39,935	19,843	13,860	6,822
1950	737,760	238,383	112,094	89,208	62,539	64,790	42,785	28,357
1955	830,909	227,956	101,293	99,951	66,640	71,155	98,412	44,469
1956	980,299	295,466	108,500	112,584	68,693	78,303	111,910	58,942
1957	1,002,641	266,904	156,474	111,320	67,813	76,503	109,608	63,528
1958	1,160,112	292,207	160,505	120,731	75,051	109,755	106,791	93,530
1959	1,046,468	250,639	119,906	117,992	71,659	97,383	80,709	106,928
1960	1,184,910	288,335	141,164	140,843	80,063	102,304	87,623	109,231
1961	1,543,909	366,556	221,256	168,903	108,486	142,381	121,147	114,812
1962	1,564,352	378,153	218,177	176,670	102,287	141,996	100,433	143,283
1963	1,755,076	414,444	266,053	183,192	103,741	159,000	141,513	145,145
1964	1,836,441	385,615	311,584	176,835	109,225	144,986	148,304	175,854
1965	2,151,305	467,141	329,121	199,362	129,702	192,762	155,213	195,392
1966	2,553,407	447,536	397,931	202,664	165,578	229,886	215,858	233,186
1967	2,432,564	471,286	360,662	176,082	126,499	186,006	174,360	228,450
1968	2,679,210	520,512	434,203	249,293	166,603	246,154	172,072	215,507
1969	2,647,499	536,583	424,446	246,422	160,423	190,008	178,143	228,027
1970	3,204,650	611,320	520,572	289,611	195,389	250,937	229,126	279,484
1971	3,559,708	729,086	548,763	330,980	247,438	292,978	196,935	277,350
1972	5,550,459	1,159,697	1,023,840	462,383	344,585	466,092	413,574	334,530
1973	8,724,231	1,642,709	1,477,300	763,513	507,088	710,640	693,840	338,800
1974	8,069,585	1,314,614	1,266,149	685,613	536,718	611,654	525,840	566,132
1975	7,617,984	1,530,547	1,206,228	605,593	511,500	549,921	494,721	551,075
1976	8,768,979	1,758,834	1,409,648	747,184	664,330	558,600	479,697	533,520
1977	10,351,545	2,021,163	1,487,933	806,637	698,342	854,112	789,627	650,670
1978	12,458,598	2,078,089	1,930,082	963,323	852,994	1,056,284	952,963	773,808
1979*	14,039,171	2,395,008	1,878,283	1,002,456	906,750	1,139,450	970,688	915,670

*Preliminary Source: Crop Reporting Board, Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

PRICES OF U.S. SOYBEANS: No. 1 Yellow

Average Price Per Bushel, Illinois Country Shipping Points, By Months 1950-79 (in Dollars)

Year beg. Sept.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
1950	2.45	2.30	2.72	2.95	3.10	3.25	3.25	3.25	3.24	3.04	2.94	2.87	2.95
1955	2.24	2.22	2.19	2.27	2.35	2.45	2.56	2.85	3.10	2.97	2.54	2.40	2.51
1960	2.07	2.04	2.05	2.15	2.39	2.66	2.88	3.14	3.06	2.73	2.59	2.63	2.53
1961	2.27	2.33	2.38	2.40	2.40	2.40	2.44	2.48	2.47	2.44	2.44	2.42	2.41
1962	2.28	2.37	2.42	2.45	2.55	2.59	2.58	2.55	2.56	2.57	2.56	2.56	2.50
1963	2.58	2.68	2.72	2.71	2.71	2.65	2.63	2.53	2.47	2.44	2.43	2.48	2.59
1964	2.61	2.67	2.74	2.83	2.87	2.95	2.94	2.97	2.81	2.89	2.79	2.63	2.81
1965	2.61	2.38	2.49	2.62	2.77	2.84	2.82	2.92	3.03	3.30	3.49	3.63	2.91
1966	3.13	2.88	2.89	2.95	2.88	2.84	2.82	2.80	2.80	2.82	2.74	2.72	2.86
1967	2.62	2.51	2.50	2.57	2.62	2.64	2.64	2.64	2.65	2.64	2.64	2.62	2.61
1968	2.50	2.32	2.45	2.52	2.55	2.55	2.56	2.60	2.64	2.61	2.64	2.60	2.54
1969	2.41	2.30	2.36	2.41	2.47	2.46	2.47	2.58	2.65	2.73	2.80	2.75	2.53
1970	2.75	2.90	2.97	2.88	2.99	3.01	3.00	2.91	2.99	3.12	3.30	3.23	3.00
1971	3.01	3.01	2.98	3.06	3.05	3.14	3.35	3.47	3.47	3.44	3.48	3.45	3.24
1972	3.42	3.61	3.84	4.07	4.46	5.80	6.15	6.52	8.94	10.84	8.47	9.00	6.22
1973	6.10	5.62	5.57	5.92	6.19	6.35	6.29	5.59	5.47	5.51	7.11	7.76	6.12
1974	7.64	8.30	7.54	7.23	6.38	5.80	5.60	5.55	5.19	5.16	5.60	6.02	6.32
1975	5.57	5.01	4.71	4.58	4.64	4.75	4.72	4.75	5.23	6.23	6.66	6.31	5.26
1976	6.59	6.22	6.55	6.86	7.06	7.26	8.25	9.60	9.42	8.25	6.40	5.49	7.33
1977	5.16	5.07	5.84	5.94	5.73	5.65	6.58	6.81	7.01	6.76	6.62	6.47	6.14
1978	6.42	6.72	6.68	6.81	6.89	7.28	7.45	7.27	7.21	7.70	7.64	7.28	7.11
1979	7.04	6.56	6.52	6.53									

Note: Beginning September 1953, price quotations are for No. 1 and No. 2 yellow soybeans when the degrading factors were test weight and/or splits only. Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

PRICES OF U.S. SOYBEANS: Received By Farmers

Average Price Per Bushel, By Months 1950-79 1/ (In Dollars)

Year beg. Sept.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Average
1950	2.26	2.03	2.54	2.70	2.90	3.08	3.10	3.12	3.13	2.98	2.86	2.71	2/2.47
1955	2.00	2.08	2.06	2.11	2.19	2.25	2.38	2.63	2.98	2.87	2.47	2.33	2/2.22
1960	1.97	1.94	1.96	1.99	2.23	2.48	2.68	3.02	2.96	2.60	2.48	2.49	2/2.13
1961	2.24	2.20	2.27	2.30	2.32	2.32	2.34	2.38	2.36	2.34	2.35	2.33	2/2.28
1962	2.25	2.23	2.30	2.35	2.41	2.50	2.51	2.45	2.47	2.48	2.44	2.45	2/2.34
1963	2.44	2.56	2.66	2.58	2.65	2.57	2.55	2.45	2.36	2.35	2.34	2.35	2/2.51
1964	2.51	2.55	2.57	2.71	2.73	2.81	2.85	2.85	2.72	2.74	2.69	2.53	2/2.62
1965	2.35	2.31	2.36	2.48	2.67	2.77	2.71	2.78	2.90	3.04	3.37	3.49	2/2.54
1966	2.97	2.78	2.80	2.82	2.77	2.71	2.74	2.71	2.69	2.71	2.66	2.56	2/2.75
1967	2.53	2.44	2.43	2.48	2.53	2.57	2.57	2.56	2.58	2.54	2.52	2.51	2/2.49
1968	2.40	2.32	2.40	2.42	2.46	2.48	2.48	2.51	2.56	2.52	2.52	2.51	2/2.43
1969	2.28	2.23	2.30	2.30	2.36	2.40	2.42	2.48	2.52	2.60	2.72	2.65	2/2.35
1970	2.66	2.67	2.86	2.77	2.86	2.92	2.91	2.80	2.85	2.98	3.18	3.09	2/2.85
1971	2.95	2.96	2.84	2.93	2.92	3.00	3.20	3.37	3.35	3.32	3.34	3.36	2/3.03
1972	3.26	3.13	3.38	3.95	4.10	5.49	6.05	6.14	8.27	10.00	6.69	8.99	2/4.37
1973	5.81	5.63	5.14	5.65	5.87	6.07	5.96	5.15	5.21	5.13	6.10	7.55	2/5.68
1974	7.32	8.17	7.44	7.03	6.30	5.72	5.31	5.60	5.00	4.90	5.28	5.80	2/6.64
1975	5.32	4.92	4.45	4.28	4.46	4.50	4.46	4.52	4.87	6.16	6.73	6.07	2/4.92
1976	6.65	5.90	6.11	6.56	6.81	7.06	7.83	9.05	9.24	8.13	6.52	5.48	2/6.81
1977	5.17	5.28	5.61	5.68	5.75	5.53	6.20	6.49	6.77	6.69	6.40	6.21	2/5.79
1978	6.20	6.26	6.41	6.49	6.58	6.99	7.16	7.06	7.06	7.36	7.36	7.07	2/6.83
1979	6.81	6.35	6.30	6.27									

1/Monthly prices computed by weighting state prices by estimated sales for the month. 2/Includes allowance for unredeemed loans and purchase agreement deliveries by states. Source: Economics, Statistics, and Cooperatives Service, Statistics Department, U.S. Department of Agriculture. Agricultural Prices Jan. 31, 1980

U.S. SOYBEAN PRICE SUPPORT OPERATIONS
1950-79

Year beg. Oct. 1	Production	Owned by CCC on Oct. 1	Under price support: Loans	Under price support: Purchase agreements	Under price support: Total	% of crop	Deliveries to CCC	Support rate per bu.	Season avg. price rec'd by farmers 3/	Price rec'd by farmers as % of parity 2/
	Th. bu.	Th. bu.	Th. bu.	Th. bu.	Th. bu.	%	Th. bu.	$	$	%
1950-51	299,249	7	14,716	238	14,954	5.0	29	2.06	2.47	102
1955-56	373,682	6,570	27,490	2,643	30,133	8.1	2	2.04	2.22	82
1960-61	565,085	9,700	25,400	200	25,600	4.6	0	1.85	2.13	84
1961-62	678,554	0	114,700	17,800	132,500	19.5	57,200	2.30	2.28	79
1962-63	669,186	6/42,500	66,600	2,200	68,800	10.3	1.2	2.25	2.34	79
1963-64	699,165	1,700	69,600	3,200	72,800	10.4	12.2	2.25	2.51	83
1964-65	700,921	3,038	28,572	—	28,572	4.1	8.0	2.25	2.62	86
1965-66	845,606	9	86,517	—	86,517	10.2	29.0	2.25	2.54	84
1966-67	928,481	1	153,142	—	153,154	16.5	25,955	2.50	2.75	85
1967-68	976,060	7/7,363	200,638	—	200,638	20.6	83,488	2.50	2.49	75
1968-69	1,106,958	8/41,555	336,862	—	336,862	30.5	166,327	2.50	2.43	71
1969-70	1,133,120	9/180,867	179,496	—	179,496	15.9	230	2.25	2.35	65
1970-71	1,127,100	10/115,311	146,416	—	146,416	13.0	37	2.25	2.85	75
1971-72	1,175,989	1,401	168,204	—	168,204	14.3	45	2.25	3.03	72
1972-73	1,270,630	—	90,555	—	90,555	7.1	6	2.25	4.37	88
1973-74	1,547,165	—	124,177	—	124,177	8.0	4	2.25	5.68	92
1974-75	1,214,802	—	34,554	—	34,554	2.8	—	2.25	6.64	95
1975-76	1,547,383	—	—	—	—	—	—	None	4.92	68
1976-77	1,287,560	—	22,491	—	22,491	1.7	—	2.50	6.81	90
1977-78	1,761,755	—	97,262	—	97,262	5.5	—	3.50	5.88	77
1978-79	1,870,181	—	64,206	—	64,206	3.4	—	4.50	6.66	75
1979-80	2,267,647	—	—		—	—	—	4.50	—	—

1/The prices shown from which the support levels were computed are comparable and parity prices originally reported as follows: 1941-49, August comparable price; 1950-55, parity prices as follows: 1950, August; 1951, January; 1952, November 1951; 1953, September 1952; 1954, December 1953; 1955, February 1955; 1956, January. 2/Generally mid-September parity prices. 3/State average prices weighted by sales to obtain national average. Prices for years in which there was a substantial volume of deliveries to CCC from loans and purchase agreements include an allowance for such deliveries valued at average loan rates. 4/Practically all processor loans. 5/Less than 500 bushels. 6/Excludes 11 million bushels resealed in farm storage. 7/Excludes 20 million bushels resealed in farm storage. 8/Excludes 52 million bushels resealed. 9/Excludes 103 million bushels resealed. 10/Excludes 42 million bushels resealed. Source: Production Adjustments Division, U.S. Department of Agriculture.

U.S. SOYBEANS: SUPPLY AND DISPOSITION

Soybeans: Supply, Disposition, Acreage and Price, 1969-79

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978 1/	1979 2/
					Year beginning September						
					Supply and Disposition (Million bushels)						
Supply											
Beginning stocks, Sept. 1	326.8	229.8	98.8	72.0	59.6	170.8	188.2	244.9	102.9	161.	174.
Production	1,133.1	1,127.1	1,176.1	1,270.6	1,547.5	1.216.3	1,547.4	1,287.6	1,761.8	1,870.	2,267.
Total supply	1,459.9	1,356.9	1,274.9	1,342.6	1,607.1	1,387.1	1,735.6	1,532.5	1,864.7	2,031.	2,442.
Disposition											
Crushings	737.3	760.1	720.5	721.8	821.3	701.3	865.1	790.2	926.7	1,018.	1,090.
Exports	432.6	433.8	416.8	479.4	539.1	420.7	555.1	564.1	700.5	753.	815.
Seed	48.5	48.1	51.0	60.8	56.1	57.2	53.5	61.0	68.0	75.	79.
Feed	.9	1.1	1.1	1.1	1.2	1.0	1.2	1.0	1.0	3/ 1.	3/ 1.
Residual	10.8	15.0	13.5	19.9	18.6	18.7	15.8	13.3	7.5	11.	17.
Total disposition	1,230.1	1,258.1	1,202.9	1,283.0	1,436.3	1,198.9	1,490.7	1,429.6	1,703.7	1,858.	2,002.
Ending stocks, Aug. 31	229.8	98.8	72.0	59.6	170.8	188.2	244.9	102.9	161.0	173.	380.
					Acreage and Yield (Million acres)						
Acreage planted	42.5	43.1	43.5	46.9	56.6	52.5	54.6	50.2	58.8	64.4	71.5
Acreage harvested for beans	41.3	42.2	42.7	45.7	55.7	51.3	53.6	49.4	57.6	63.3	70.2
Percent harvested (%)	97.2	97.9	98.2	97.4	98.4	97.7	98.3	98.2	97.9	98.3	98.2
					(Bushels)						
Yield per acre harvested	27.4	26.7	27.5	27.8	27.7	23.2	28.9	26.1	30.6	29.5	31.5
					Price (Dollars)						
Price per bushel											
Support (U.S. farm basis)	2.25	2.25	2.25	2.25	2.25	2.25	—	2.50	3.50	4.50	4.50
Received by farmers	2.35	2.85	3.03	4.37	5.68	6.64	4.92	6.81	5.88	6.75	6.25
No. 1 yellow, Ill. Pts.	2.53	3.00	3.24	6.22	6.12	6.32	5.26	7.33	6.14	7.11	—
No. 1 yellow, Chicago	2.61	3.05	3.29	6.26	6.12	6.33	5.25	7.36	6.11	7.09	—

1/ Preliminary. 2/ March 7 estimate. Disposition is forecast. 3/ Estimates. Source: Economics, Statistics, and Cooperatives Service, Fats and Oils Situation.

U.S. SOYBEANS: VALUE OF PRODUCTS PER BUSHEL OF SOYBEANS PROCESSED AND PRICE SPREAD, 1950-78

Year beg. Sept.	Value of products per bushel: Soy oil Yield pounds 1/	Soy oil Price 2/ cents	Soy oil Value dollars	Soybean meal Yield pounds 1/	Soybean meal Price 2/ cents	Soybean meal Value dollars	Total value dollars	Soybean price: Rec'd by farmers dollars 3/	Soybean price: No. 1 yellow, Ill. points dollars 4/	Spread between value of products and soybean price: Rec'd by farmers dollars	Spread between value of products and soybean price: No. 1 yellow, Ill. points dollars
1950	9.7	17.9	1.74	46.8	3.16	1.48	3.22	2.47	2.95	.75	.27
1955	11.1	12.5	1.39	46.2	2.68	1.24	2.63	2.22	2.51	.41	.12
1960	11.0	11.2	1.23	47.0	3.00	1.41	2.64	2.13	2.53	.51	.11
1961	10.9	9.7	1.06	47.2	3.11	1.47	2.53	2.28	2.41	.25	.12
1962	10.7	8.8	.94	46.9	3.57	1.67	2.61	2.34	2.50	.27	.11
1963	10.9	8.4	.92	48.0	3.58	1.72	2.64	2.51	2.59	.13	.05
1964	10.9	11.2	1.22	47.7	3.48	1.66	2.88	2.62	2.81	.26	.07
1965	10.7	11.8	1.26	47.5	4.02	1.91	3.17	2.54	2.91	.63	.26
1966	10.7	10.4	1.11	47.7	3.98	1.90	3.01	2.75	2.86	.26	.15
1967	10.6	8.6	.91	47.7	3.82	1.82	2.73	2.49	2.61	.24	.12
1968	10.6	8.2	.87	47.4	3.76	1.78	2.66	2.43	2.54	.23	.12
1969	10.7	11.0	1.17	47.4	3.89	1.84	3.01	2.35	2.53	.66	.48
1970	10.8	12.8	1.38	47.4	3.96	1.88	3.26	2.85	3.00	.41	.26
1971	11.0	11.5	1.26	47.4	4.36	2.07	3.33	3.03	3.24	.30	.09
1972	10.6	15.2	1.62	47.0	11.03	5.19	6.81	4.37	6.21	2.44	.60
1973	10.8	30.2	3.25	47.2	7.61	3.59	6.84	5.68	6.12	1.16	.72
1974	10.5	32.1	3.37	47.5	6.56	3.12	6.49	4/6.15	6.32	.34	.17
1975	10.9	18.5	2.02	47.3	7.20	3.40	5.42	4.92	5.26	.50	.16
1976	11.1	24.1	2.67	47.8	10.14	4.85	7.52	6.81	7.33	.71	.19
1977 5/	10.9	23.8	2.59	47.4	8.09	3.83	6.42	5.88	6.14	.54	.28
1978 5/	11.1	27.0	2.99	47.6	9.40	4.48	7.47	6.75	7.11	.72	.36

1/ Actual outturn of oil and meal as calculated from Bureau of Census Reports. 2/ Simple average of monthly cash prices per poundusing the following quotations: soybean oil, crude, tank cars, F.O.B. Decatur, Ill.: soybean meal, bulk, 44% protein, Decatur, Ill. 3/ Season average price received by farmers weighted by the estimated percent of crops sold each month. 4/ Simple average of monthly prices. 5/ Preliminary. 6/ Economics, Statistics, and Cooperatives Service estimate. Source: Fats and Oils Situation, Oct. 1978.

NUMBER OF U.S. SOYBEAN PROCESSING PLANTS

Estimated Number of Soy Oil Mills and Processing Capacity, 1952-79

Year beginning September	Processing mills 1/ Number	Annual processing capacity — Total 2/ Mil. bu.	Utilized 3/ Mil. bu.	Excess 4/	Ratio of utilized to total Pct.	Average per mill — Processing capacity Mil. bu.	Capacity utilized 3/ Mil. bu.
1951	193	310	244	66	79	1.6	1.3
1955	152	(355)	282	73	79	2.3	1.9
1960	125	525	406	119	77	4.2	3.2
1961	131	(535)	431	104	81	4.1	3.3
1962	130	550	473	77	86	4.2	3.6
1963	132	575	437	138	76	4.4	3.3
1964	125	585	479	106	82	4.7	3.8
1965	125	600	537	63	89	4.8	4.3
1966	129	650	559	91	86	5.0	4.3
1967	135	750	576	174	77	5.5	4.3
1968	134	750	606	144	81	5.6	4.5
1969	132	800	737	63	92	6.1	5.6
1970	130	875	760	115	87	6.7	5.8
1971	123	900	720	180	80	7.3	5.9
1972	117	925	722	203	78	7.9	6.2
1973	113	1,000	821	179	82	8.8	7.3
1974	108	1,050	701	349	67	9.7	6.5
1975	103	1,100	865	235	79	10.7	8.4
1976	103	1,200	790	410	66	11.7	7.7
1977	99	1,250	927	323	74	12.6	9.4
1978 5/	95	1,300	1,018	282	78	13.7	10.7
1979 6/	94	1,350	1,090	260	81	14.4	11.6

1/ Estimates developed from census data and trade directories. Includes cottonseed and other oilseed mills that process significant quantities of soybeans. 2/ Estimates shown here are approximations of capacity at the beginning of the marketing year. Capacity fluctuates during any year due to new plants coming into operation and additions to existing mills, some mills becoming dormant (due to explosions, fires, strikes, etc.) and dismantling of older mills. 3/ Soybeans actually crushed. 4/ Difference between total capacity and soybean utilized (crushed). 5/ Preliminary. 6/ Forecast. Source: Fats and Oils Situation, Oct. 1978.

U.S. SOYBEAN MEAL: PRICES PAID BY FARMERS

Soybean Meal, 44% Protein: Prices Paid by Farmers per 100 Pounds, by Months, 1950-79

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Avg.
1950	$4.20	$4.02	$4.11	$4.19	$4.58	$4.73	$5.16	$5.01	$4.44	$4.15	$4.24	$4.34	$4.43
1955	4.77	4.73	4.62	4.50	4.36	4.16	4.16	4.14	4.17	4.33	4.08	3.97	4.33
1960	4.24	4.19	4.14	4.16	4.09	4.05	4.03	3.98	4.01	3.96	3.85	3.80	4.04
1965	4.76	4.81	4.80	4.82	4.82	4.90	5.03	5.04	5.01	5.01	5.10	5.01	4.93
1966	5.06	5.17	5.08	5.03	5.21	5.33	6.11	6.07	6.23	5.73	5.56	5.55	5.51
1967	5.60	5.51	5.45	5.35	5.26	5.31	5.38	5.30	5.47	5.32	5.20	5.17	5.36
1968	5.20	5.24	5.22	5.21	5.23	5.28	5.41	5.51	5.56	5.54	5.39	5.31	5.34
1969	5.24	5.21	5.21	5.21	5.24	5.31	5.36	5.35	5.32	5.26	5.26	5.28	5.27
1970	5.73	5.87	5.62	5.46	5.45	5.42	5.56	5.67	5.72	5.69	5.62	5.67	5.62
1971	5.74	5.69	5.67	5.62	5.63	5.71	5.76	5.79	5.69	5.64	5.61	5.65	5.68
1972	5.74	5.79	5.94	6.14	6.27	6.32	6.53	6.65	6.80	6.91	7.39	8.95	6.62
1973	10.40	11.50	12.60	12.10	15.40	19.60	17.00	18.60	14.90	13.30	11.20	11.90	14.00
1974	11.90	11.40	10.60	9.80	8.75	8.33	8.29	11.40	10.30	11.30	10.70	10.30	10.30
1975	9.86	9.10	8.37	8.64	8.54	8.48	8.57	8.88	9.24	9.23	8.75	8.74	8.87
1976	8.81	8.84	8.86	8.84	9.34	11.50	12.50	11.70	12.20	11.60	11.50	12.20	10.70
1977	12.60	13.00	13.70	15.10	16.00	15.40	13.20	11.80	11.20	10.70	11.00	11.30	12.90
1978	11.30	10.90	11.30	11.90	11.80	11.90	11.90	11.50	11.50	11.80	12.30	12.40	11.70
1979	12.50	12.60	12.80	12.80	12.80	13.10	14.00	13.50	13.20	13.20	12.80	13.00	13.03

Source: Economics, Statistics, and Cooperatives Service, Statistics, USDA.

U.S. SOYBEAN MEAL: AVERAGE WHOLESALE PRICE

Soybean Meal, 44% Protein 1/, Average Wholesale Price per Ton, Bulk Chicago by Months, 1950-79

Year beginning October	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Average
1950	59.40	67.35	70.40	70.70	76.05	72.65	68.45	69.55	69.30	73.50	70.40	76.30	70.30
1955	62.20	55.25	56.60	57.35	55.90	53.55	59.70	66.30	67.40	61.65	58.80	53.60	59.00
1960	52.75	48.00	55.15	59.00	65.25	68.20	77.00	75.00	67.85	68.85	71.10	63.60	64.30
1961	59.50	63.30	64.10	63.50	61.40	64.90	66.30	68.20	71.00	72.50	74.00	80.90	67.50
1962	73.30	74.50	74.70	75.80	76.50	74.70	72.00	71.50	74.20	76.50	79.50	79.40	75.20
1963	77.60	79.20	81.70	81.50	78.80	77.60	74.00	69.80	70.70	69.80	68.10	73.70	75.20
1964	73.40	70.30	72.10	72.10	74.20	72.70	73.60	72.80	79.20	78.90	74.40	81.30	74.60
1965	75.20	80.20	75.70	83.20	81.50	75.90	80.00	84.80	96.90	101.50	102.30	92.70	85.80
1966	86.60	83.40	89.10	86.10	83.70	81.10	78.90	78.10	82.50	82.60	83.00	83.60	83.20
1967	76.30	76.30	77.80	79.50	78.90	79.30	79.00	79.60	83.90	87.20	88.90	89.60	81.40
1968	82.50	78.10	76.10	74.20	74.40	77.00	77.80	80.60	82.00	81.80	81.30	77.30	78.60
1969	79.90	74.60	87.90	92.50	90.25	77.40	79.60	76.20	79.90	88.10	89.20	86.00	83.50
1970	82.40	83.20	87.40	85.60	82.60	82.40	80.25	84.25	87.50	90.25	84.75	79.25	84.20
1971	80.75	79.80	86.60	88.60	91.00	97.00	100.60	101.40	101.10	107.50	107.10	113.90	96.30
1972	114.90	129.40	180.60	195.00	225.30	206.50	209.80	321.20	418.90	317.80	291.60	214.70	235.50
1973	166.20	173.80	198.80	178.80	166.80	154.20	124.30	116.30	107.10	145.80	164.00	146.00	153.50
1974	176.00	148.80	151.20	137.00	125.00	125.60	129.90	128.30	129.20	132.30	143.40	143.00	139.10
1975	135.30	126.90	134.60	137.75	140.75	137.50	136.60	162.10	198.10	204.10	183.50	189.30	157.20
1976	179.80	191.40	207.80	217.20	221.20	236.40	285.80	268.40	235.50	172.50	150.90	194.25	210.10
1977	145.40	172.30	170.70	173.10	164.00	190.50	184.10	188.50	180.80	183.10	174.10	175.40	175.17
1978	188.40	188.70	200.40	196.50	202.40	206.20	202.80	199.70	221.40	213.60	201.00	200.70	201.92
1979	193.50	195.20	200.10	192.40									

Source: Economics, Statistics, and Cooperatives Services, National Economics Division, Crops Branch.

U.S. SOYBEAN MEAL: AVERAGE WHOLESALE PRICE

Soybean Meal, 44% Protein 1/, Average Wholesale Price per Ton, Bulk, Decatur by Months, 1950-79 2/

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Average
1950-51	54.05	61.45	64.70	63.90	69.25	67.00	62.00	63.40	64.40	68.80	64.60	69.75	64.45
1955-56	56.00	49.00	50.25	51.00	49.40	47.40	53.00	60.05	60.75	54.80	52.10	46.90	52.55
1960-61	48.95	44.50	51.25	55.20	61.50	64.45	73.10	71.00	63.85	65.00	68.90	59.60	60.60
1961-62	55.80	59.30	60.20	59.90	57.60	60.60	62.50	64.10	66.70	68.50	71.10	76.70	63.60
1962-63	69.00	70.60	70.50	71.90	73.10	70.80	68.30	68.10	70.40	72.00	75.20	75.20	71.30
1963-64	73.50	74.90	76.90	77.50	74.80	73.40	69.90	65.50	66.50	65.80	63.90	69.50	71.00
1964-65	69.20	66.10	67.80	68.00	69.80	68.50	69.30	68.40	74.60	74.40	69.60	76.80	70.20
1965-66	70.80	75.70	71.40	78.80	77.30	71.50	75.50	80.30	92.70	97.20	97.90	88.40	81.50
1966-67	82.20	78.90	84.60	81.70	79.50	76.60	74.50	73.70	78.10	78.20	78.70	79.20	78.80
1967-68	71.80	71.90	73.40	75.10	74.50	75.00	74.60	75.00	79.50	82.80	84.40	85.10	76.90
1968-69	78.20	73.50	71.60	69.80	69.90	72.60	73.30	76.10	77.50	77.30	76.90	72.70	74.10
1969-70	75.40	69.90	82.90	87.50	85.25	71.80	74.60	71.20	74.70	82.90	84.00	81.20	78.40
1970-71	77.25	77.90	82.00	80.25	77.50	77.00	74.25	78.25	81.50	84.25	78.75	73.25	78.50
1971-72	74.75	73.80	80.60	82.60	84.80	90.90	94.50	95.30	95.00	101.40	101.00	107.75	90.20
1972-73	109.00	123.20	174.00	188.40	218.75	199.90	203.25	314.60	412.50	311.20	285.00	208.10	229.00
1973-74	159.60	167.00	192.00	172.00	160.00	147.10	117.20	109.25	100.00	138.10	155.90	138.10	146.40
1974-75	168.20	141.00	143.40	129.20	117.25	117.75	122.00	118.50	120.90	124.00	134.40	133.70	130.90
1975-76	125.90	119.90	125.10	128.25	132.60	127.90	127.10	152.25	187.90	193.90	173.30	179.20	147.80
1976-77	169.60	181.20	197.60	207.00	211.00	226.20	275.60	258.25	225.30	162.00	140.30	143.60	199.80
1977-78	135.00	161.70	160.10	162.20	152.90	179.40	173.00	177.40	169.75	172.00	162.90	163.90	164.20
1978-79	176.80	177.10	188.75	184.90	190.90	194.00	191.10	188.00	209.60	201.60	188.90	188.60	190.00
1979-80	181.40	183.10	188.00										

1/ 41% 1940-50. 2/ Does not include bagging charges which averaged as follows by years: 1950-52 $6.00; 1952-53 $5.00; 1953 to date $4.50. Source: Feed Market News, Grain Division, Agricultural Marketing Service, U.S. Department of Agriculture.

U.S. SOYBEAN MEAL: PRODUCTION, STOCKS AND DISAPPEARANCE

Soybean Cake and Meal: Production, Stocks, Foreign Trade and Domestic Disappearance, 1972-79
(1,000 short tons)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
1972-73													—
1/ Stocks	191.7	185.7	170.7	217.9	193.3	210.0	206.3	213.5	203.2	204.5	214.4	212.8	984.0
Production	1,562.4	1,660.7	1,617.5	1,656.0	1,523.1	1,507.3	1,363.6	1,449.3	1,226.2	1,042.6	1,116.1	984.0	16,708.8
Exports	287.8	478.4	438.9	583.7	498.2	511.6	417.8	414.1	449.8	199.5	323.0	194.0	4,796.8
Domestic disappearance	1,280.6	1,197.3	1,131.4	1,096.9	1,008.2	999.4	938.6	1,045.5	775.1	833.2	794.7	819.6	11,920.5
1973-74												4 535.4	—
1/ Stocks	183.2	234.3	242.2	284.6	249.0	281.1	361.6	348.0	427.9	514.3	475.9	1,288.1	19,674.4
Production	1,464.6	1,688.0	1,703.8	1,757.1	1,657.7	1,783,1	1,646.5	1,693.8	1,630.2	1,704.2	1,654.3	270.4	5,584.0
Exports	301.4	496.0	528.2	455.0	551.2	581.4	532.2	431.8	582.8	436.4	417.2	1,045.8	13,766.3
Domestic disappearance	1,112.1	1,184.1	1,133.2	1,337.7	1,074.4	1,124.2	1,127.9	1,182.1	963.0	1,306.2	1,177.6		
1974-75												404.5	—
1/ Stocks	507.3	508.2	563.7	529.0	541.0	540.0	556.7	470.5	448.1	421.7	394.8	1,337.9	16,701.5
Production	1,467.0	1,457.7	1,427.3	1,483.9	1,282.0	1,435.8	1,368.2	1,245.4	1,256.2	1,407.6	1,532.5	285.8	4,349.2
Exports	406.8	412.5	366.6	492.1	371.9	282.2	540.3	218.9	330.0	270.2	371.9	1,098.3	12,501.3
Domestic disappearance	1,059.3	989.7	1,095.4	979.8	911.1	1,136.9	914.1	1,048.9	952.6	1,164.3	1,150.9		
1975-76												350.5	—
1/ Stocks	358.3	396.1	441.4	371.4	378.1	419.5	358.3	358.8	462.8	369.8	406.9	1,644.8	20,754.2
Production	1,700.5	1,697.0	1,807.8	1,748.3	1,616.5	1,820.0	1,830.2	1,890.8	1,771.8	1,670.3	1,556.2	360.8	5,206.0
Exports	279.4	353.4	435.9	543.3	392.5	498.0	656.7	383.1	481.9	384.3	436.7	1,279.6	15,551.6
Domestic disappearance	1,383.3	1,298.3	1,441.9	1,198.3	1,182.6	1,383.2	1,173.0	1,403.7	1,382.9	1,248.9	1,175.9		
1976-77												270.1	—
1/ Stocks	354.9	423.5	427.7	353.9	384.7	429.9	412.6	449.0	408.3	390.7	399.0	1,243.1	18,488.1
Production	1,747.2	1,763.4	1,741.3	1,725.1	1,709.2	1,771.0	1,596.0	1,454.0	1,339.5	1,211.4	1,189.0	292.6	4,613.9
Exports	412.3	405.3	470.5	462.9	307.1	645.8	370.5	479.4	240.7	246.1	280.7	992.6	14,000.8
Domestic disappearance	1,266.3	1,353.9	1,344.6	1,231.4	1,356.9	1,142.5	1,189.1	1,015.3	1,116.4	956.9	1,034.9		
1977-78												234.1	—
1/ Stocks	228.3	270.0	239.7	245.1	251.7	239.7	227.4	298.5	263.3	191.1	262.6	1,696.0	22,372.6
Production	1,781.4	2,017.3	2,044.1	2,006.7	1,778.5	2,050.0	1,875.1	1,959.7	1,725.2	1,680.7	1,757.9	422.7	6,080.0
Exports	238.9	533.9	520.6	618.6	454.6	721.5	659.3	508.9	540.7	399.4	470.6	1,259.1	16,210.6
Domestic disappearance	1,500.8	1,506.5	1,518.0	1,376.1	1,328.9	1,334.9	1,142.2	1,478.9	1,252.9	1,204.7	1,307.6		
1978-1979												173.7	—
1/Stocks	242.9	239.5	205.9	289.1	242.2	224.9	238.1	264.7	237.2	239.0	262.4	1,821.7	24,354.1
Production	2,114.7	2,135.4	2,292.2	2,158.3	1,954.7	2,121.6	1,989.0	2,065.0	1,979.0	1,898.3	1,823.9	379.1	6,609.8
Exports	477.5	507.5	738.5	659.0	526.5	903.7	507.5	453.6	502.9	543.7	410.3	1,348.9	17,719.8
Domestic disappearance	1,640.6	1,661.5	1,470.5	1,546.2	1,445.5	1,204.7	1,454.9	1,638.9	1,474.6	1,331.2	1,502.3		

1/ Beginning of month. Compiled from reports of the Bureau of the Census and the Economics, Statistics, and Cooperative Service, USDA.

OILSEED CAKE AND MEALS: SUPPLY AND DISPOSITION

Oilseed cake and meal: Supply and disposition, and price, year beginning October 1971-79

	Supply				Disposition				
	Stocks Oct. 1 1/	Production	Imports	Total	Domestic disappearance 1,000 tons	Exports	Shipments	Total	Price per ton 2/ Dollars
1971-72									
Soybean	146	17,024	—	17,170	13,110	3,805	63	16,980	90.20
Cottonseed	82	1,843	—	1,925	1,858	6	26	1,891	76.30
Linseed	5	405	3	413	263	144	—	407	72.50
Peanut	5	172	—	177	175	—	—	175	85.50
Copra	—	100	—	100	100	—	—	100	—
Total	238	19,544	3	19,785	15,506	3,955	89	19,553	—
1972-73									
Soybean	192	16,708	—	16,900	11,920	4,745	52	16,717	229.00
Cottonseed	33	2,267	4	2,304	2,198	24	27	2,249	161.20
Linseed	5	362	2	369	212	143	—	355	159.20
Peanut	2	182	—	184	181	—	—	181	—
Copra	—	—	—	—	—	—	—	—	—
Total	232	19,519	6	19,757	14,511	4,912	79	19,502	—
1973-74									
Soybean	183	19,674	—	19,857	13,766	5,548	36	19,350	146.35
Cottonseed	55	2,172	5	2,232	2,078	69	18	2,165	130.70
Linseed	14	287	14	315	194	107	—	301	127.95
Peanut	3	130	—	133	129	—	—	129	—
Copra	—	—	—	—	—	—	—	—	—
Total	255	22,263	19	22,537	16,167	5,724	54	21,945	—
1974-75									
Soybean	507	16,702	—	17,209	12,502	4,299	50	16,851	130.85
Cottonseed	67	1,851	1	1,919	1,808	11	39	858	119.55
Linseed	14	232	3/	246	94	144	—	238	126.65
Peanut	4	151	—	155	152	—	—	152	129.30
Copra	—	—	—	—	—	—	—	—	—
Total	592	18,936	1	19,529	14,556	4,454	89	19,093	—
1975-76									
Soybean	358	20,754	—	21,113	15,552	5,145	61	20,758	147.75
Cottonseed	61	1,238	11	1,311	1,238	24	28	1,291	148.60
Linseed	8	227	—	235	84	143	—	227	134.55
Peanut	3	311	—	315	313	—	—	313	150.90
Total	430	22,530	11	22,974	17,187	5,312	89	22,589	—
1976-77									
Soybean	355	18,488	—	18,843	14,001	4,559	55	18,615	199.80
Cottonseed	20	1,643	2	1,665	1,524	50	32	1,606	175.80
Linseed	7	210	1	218	127	87	—	214	156.85
Peanut	2	204	—	206	203	—	—	203	207.40
Total	384	20,545	3	20,932	15,855	4,696	c87	20,638	—
1977-78									
Soybean	228	22,371	—	22,599	16,209	6,080	67	22,356	164.20
Cottonseed	59	2,083	4	2,146	1,920	115	42	2,077	140.45
Linseed	4	236	4	244	83	158	—	241	137.75
Peanut	3	99	—	102	100	—	—	100	164.35
Total	294	24,789	8	25,091	18,312	6,353	109	24,774	—
1978-79									
Soybean	243	24,354	—	24,597	17,645	6,610	75	24,330	190.10
Cottonseed	69	1,885	9	1,963	1,665	150	97	1,912	164.80
Linseed	3	244	2	249	125	118	—	243	152.20
Peanut	2	104	—	106	105	—	—	105	198.50
Total	317	26,587	11	26,915	19,540	6,878	172	26,590	—
1979-80 4/									
Soybean	267	26,053	—	26,320	18,835	7,000	85	25,920	180.00
Cottonseed	51	2,070	4	2,125	1,810	155	100	2,065	160.00
Linseed	6	240	2	248	114	130	—	244	140.00
Peanut	1	115	—	116	114	—	—	114	185.00
Total	325	28,478	6	28,809	20,873	7,285	185	28,343	—

1/ Stocks at processing mills. 2/ Soybean meal, 44% protein, bulk Decatur. Cottonseed meal, 41% protein, bulk Memphis. Copra meal, bulk, San Francisco. Peanut meal, 50% protein, southeast milling points. 3/ Less than 500 tons. 4/ Forecast. Source: Program Adjustment Division, Agricultural Stabilization & Conservation Service, U.S. Department of Agriculture.

PRICES OF U.S. SOY OIL

Soy Oil, Domestic Crude: Average cents per Pound in Tank Cars at Midwestern Mills by Months, 1950-79

Crop year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Season avg.**
1950-51	14.6	17.1	19.6	20.6	21.1	20.5	20.5	19.5	16.4	14.5	15.4	14.0	17.8
1955-56	10.9	11.0	10.9	11.7	12.8	14.3	14.9	15.3	13.6	12.5	11.4	11.3	12.5
1960-61	9.4	10.2	10.0	10.9	12.2	13.0	13.3	12.7	13.6	10.9	10.9	10.5	11.3
196--62	10.7	10.4	10.5	10.5	10.2	10.1	9.9	9.3	8.4	8.0	8.2	8.1	9.5
1962-63	8.7	8.6	8.6	8.9	9.2	9.3	9.1	9.2	9.1	9.0	8.3	8.5	8.9
1963-64	9.2	9.1	8.3	8.1	8.0	8.1	7.9	8.4	8.2	8.5	8.8	9.7	8.5
1964-65	10.9	12.2	12.0	11.6	12.1	12.2	12.1	10.4	10.2	10.0	10.5	11.4	11.3
1965-66	11.5	11.2	11.2	11.9	12.0	11.3	11.6	11.3	11.2	12.3	14.1	12.3	11.8
1966-67	10.9	10.8	10.6	10.3	10.3	10.3	10.3	10.3	9.8	9.1	9.6	9.3	10.1
1967-68	8.8	8.6	8.6	8.7	9.5	9.1	8.8	8.7	7.8	7.4	7.5	7.5	8.4
1968-69	7.3	7.9	8.1	8.6	8.9	8.8	8.4	8.4	7.8	8.2	8.9	9.7	8.4
1969-70	10.6	10.9	9.6	9.6	11.5	12.2	12.2	11.3	11.1	11.5	11.6	12.1	11.2
1970-71	14.0	13.9	12.4	12.3	12.1	12.2	11.2	11.4	12.8	14.5	14.5	12.8	12.8
1971-72	13.2	12.5	11.7	10.9	11.0	11.7	11.9	11.4	10.7	10.3	10.1	9.8	11.3
1972-73	9.6	9.6	9.7	10.1	13.0	13.9	15.0	17.1	19.3	22.4	33.5	24.3	16.5
1973-74	23.1	20.4	26.0	28.6	36.4	30.2	28.2	29.4	31.6	40.5	43.3	40.7	31.5
1974-75	42.3	40.4	38.0	33.6	29.4	29.1	28.2	23.6	23.3	27.5	28.5	24.4	30.7
1975-76	21.4	18.9	16.8	16.2	16.3	16.6	16.3	15.8	17.6	20.9	20.4	22,5	18.3
1976-77	20.7	21.8	21.0	20.9	22.4	26.5	29.6	31.3	28.3	23.8	21.1	19.2	23.9
1977-78	18.8	21.0	22.6	20.9	21.6	26.6	26.8	28.8	26.9	25.9	26.3	27.8	24.5
1978-79	26.7	23.7	25.3	25.8	27.3	26.9	26.7	27.8	27.4	29.1	29.2	30.0	27.2
1979-80	27.9	27.8	26.2										

Source: Marketing Research Service, U.S. Dept. of Agriculture. Monthly prices, Oct. 1938 through Dec. 1952 compiled from The National Provisioner; since February 1953 from Oil Paint and Drug Reporter. June 1969 through Nov. 1978 monthly prices compiled from Chicago, Wall Street Journal. Beginning Dec. 1978 monthly prices' source from Fats and Oil Situation. **Simple average for months shown.

FOOD FATS AND OILS: IMPORTS, EXPORTS AND PRODUCTION 1970/71-1979/80 2/

Item	Year beginning October 1970/71	1971/72	1972/73	1973/74	1974/75	1975/76	1976/77	1977/78	1/ 1978/79	2/ 1979/80
	(Million pounds)									
Imports:										
Butter	2	2	2	56	2	2	2	1	1	1
Tallow, edible	3/	3/	1	3/	3/	3/	3/	—	—	—
Olive oil	67	67	58	49	46	63	56	62	53	55
Coconut oil	606	634	687	563	674	1,248	1,115	980	967	900
Corn oil	1	—	3/	1	2	1	10	3	3/	—
Cottonseed oil	3/	—	3/	3/	—	3/	—	—	—	—
Palm oil	207	440	363	346	757	933	661	361	277	300
Palm kernel oil	105	90	102	126	160	158	157	123	143	140
Peanut oil	3/	3/	3/	1	3/	2	3/	3/	3/	3/
Sesame oil	2	2	2	3	2	3	3	3	3	3
Sunflower oil	—	—	—	—	1	2	—	—	—	—
Total	990	1,235	1,215	1,145	1,644	2,413	2,006	1,533	1,444	1,399
Production:										
Butter	1,148	1,121	956	927	995	946	1,078	1,035	965	1,000
Lard	2,044	1,667	1,302	1,349	1,111	999	1,056	999	992	1,275
Tallow, edible	550	523	481	556	557	527	532	795	921	950
Oleo oil & Stearine 3/	4	5	8	9	11	7	8	5	5	5
Coconut oil	205	336	310	93	—	—	—	—	—	—
Corn oil	485	499	523	528	465	644	669	696	737	750
Cottonseed oil	1,235	1,308	1,564	1,552	1,335	920	1,198	1,453	1,328	1,400
Soybean oil	8,265	7,892	7,501	8,995	7,375	9,630	8,578	10,291	11,594	11,720
Peanut oil	266	265	273	195	236	494	312	145	164	150
Safflower oil (estimate) 100		120	140	150	100	115	100	75	95	125
Sunflower oil	—	—	—	—	92	110	37	29	254	475
Subtotal	14,322	13,756	13,068	14,304	12,292	14,379	13,542	15,543	17,085	17,825
Oilseeds (oil equiv. of exports)	4,857	4,556	5,299	6,221	4,887	6,445	6,453	8,503	9,405	10,865
Total Supply	21,575	21,293	21,348	22,947	20,494	24,606	24,383	27,503	29,769	32,012
Exports and shipments:										
Butter	27	124	18	8	4	3	4	4	2	2
Lard	382	220	132	180	148	185	249	180	129	150
Tallow, edible	6	5	20	43	17	22	23	18	50	50
Oleo oil & stearine	4	5	8	9	11	7	8	5	5	5
Coconut oil	17	20	19	17	14	53	31	34	9	10
Corn oil	43	49	44	68	84	98	93	116	127	150
Cottonseed oil	373	453	584	565	696	500	691	744	718	750
Palm oil	8	32	40	24	27	39	57	52	12	—
Peanut oil	60	71	111	42	40	104	74	127	41	40
Processed food oils 4/	67	70	67	91	77	101	88	52	41	75
Safflower oil (estimate)	20	40	40	25	25	25	15	25	25	25
Soybean oil	1,782	1,440	1,086	1,461	1,090	1,034	1,608	2,159	2,485	2,280
Sunflower oil	—	—	—	—	9	10	31	75	80	110
Subtotal	2,789	2,529	2,169	2,533	2,232	2,181	2,972	3,591	3,724	3,647
Oilseed (oil equivalent):										
Cottonseed	12	1	3	17	2	26	4	15	2	10
Soybeans	4,764	4,429	5,191	6,100	4,643	6,083	6,126	7,700	8,283	8,965
Peanuts (for crushing abroad)	58	71	56	68	54	—	1	—	—	—
Safflower	23	55	49	36	38	26	22	28	37	40
Sunflowerseed	—	—	—	—	150	310	300	760	1,083	1,850
Subtotal	4,857	4,556	5,299	6,221	4,887	6,445	6,453	8,503	9,405	10,865
Total exports	7,646	7,085	7,468	8,754	7,119	8,626	9,425	12,094	13,129	14,512

1/ Preliminary. 2/ Forecast. 3/ Less than 500,000 pounds. 4/ Includes exports of processed food oils not classified by kind, shortening and other secondary fats. Source: Fats and Oils Situation, Feb. 1980, Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

FOOD FATS AND OILS: DOMESTIC AND PER CAPITA DISAPPEARANCE 1970-79

Item	Year beginning October 1970	1971	1972	1973	1974	1975	1976	1977	1978 1/	1979 2/
Domestic Disappearance (million pounds)										
Butter	1,074	1,043	1,024	964	1,059	917	941	982	1,013	1,000
Lard	1,645	1,480	1,185	1,150	989	803	814	822	935	1,100
Tallow, edible	518	546	479	500	548	470	534	723	869	900
Coconut oil	644	612	664	539	675	1,175	1,075	939	945	900
Corn oil	445	439	492	450	399	559	581	574	613	600
Cottonseed oil	890	834	980	991	662	451	532	683	619	625
Soybean oil	6,253	6,439	6,685	7,255	6,518	7,906	7,454	8,182	8,867	9,320
Olive oil	67	67	58	49	46	63	56	62	53	55
Palm oil	182	351	356	294	692	883	611	367	277	275
Palm kernel oil	94	92	107	120	165	151	138	168	138	140
Peanut oil	193	200	162	150	175	237	265	179	120	125
Safflower oil(est.)	100	90	118	98	75	75	70	74	80	75
Sesame oil	2	2	2	3	2	3	3	3	3	3
Sunflower oil	—	—	—	—	83	80	26	120	166	325
Processed food oils 3/	-67	-70	-67	-91	-77	-101	-88	-75	-109	-100
Total	12,041	12,124	12,244	12,474	11,970	13,671	13,013	13,803	14,589	15,343
Total (calculated net) 4/	12,041	12,105	12,292	12,433	12,003	13,614	13,030	—	—	—
Total use for food 5/	11,057	11,312	11,501	11,597	11,340	12,172	11,711	12,264	12,600	—
Per Capita Disappearance (pounds)										
Butter (fat content)	4.2	4.0	3.9	3.7	4.0	3.4	3.5	3.6	3.7	—
Margarine (fat content)	8.7	8.9	9.0	9.0	8.8	9.6	9.3	9.0	9.3	—
Lard (direct use)	4.6	3.7	3.5	3.2	3.0	2.8	2.3	2.3	2.5	—
Baking and frying fats	17.0	17.3	17.3	17.3	16.6	18.3	17.2	17.9	18.9	—
Salad and cooking oils	15.6	16.7	17.4	18.5	17.8	19.5	19.0	20.5	21.3	—
Other edible uses	2.3	2.7	2.7	2.1	2.0	2.1	1.9	2.1	1.9	—
Total (fat content)	52.5	53.3	53.8	53.9	52.2	55.8	53.3	55.4	57.6	—

1/ Preliminary. 2/ Forecast. 3/ Includes exports of processed food oils not classified by kind, shortening and other secondary fats. 4/ Adjusted to reflect changes in stocks of finished products. 5/ Excludes food fats and oils used for non-food purposes. Source: Fats and Oil Situation, Feb. 1980, Economics, Statistics and Cooperatives Service, U.S. Department of Agriculture.

PRODUCTION OF PROTEIN CONCENTRATES

Production of Specified Protein Concentrates in the United States Year Beginning Oct. 1, 1969-79 (in 1,000 Short Tons)

Protein concentrate	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79
Soybean meal	17,597	18,035	17,024	16,709	19,674	16,702	20,754	18,489	22,371	24,288
Cottonseed meal	1,786	1,762	1,842	2,267	2,172	1,851	1,238	1,643	2,083	1,913
Linseed meal	273	354	405	361	287	232	232	210	242	216
Peanut meal	121	177	172	181	130	151	311	204	100	108
Copra meal	82	99	100	100	—	—	—	—	—	—
Gluten feed and meal	1,575	1,760	1,800	2,077	2,151	2,365	2,565	2,697	3,020	3,070
Tankage and meat scraps	2,011	2,032	1,874	1,732	1,851	1,978	1,989	2,189	2,313	2,318
Fish cake and meal	314	351	348	370	375	347	375	345	425	358
Dried milk products*	230	260	330	330	315	•150	•160	•160	•187	•201
Other milk products†	350	330	310	350	350	•186	•190	•192	•193	•195
Total	24,338	25,160	24,205	24,477	27,305	23,962	27,814	26,129	30,934	32,667

Dried and concentrated skim milk, buttermilk, and whey manufactured for animal feed and nonfat dry milk produced for human consumption but fed to animals. **Preliminary. †Dry equivalent of skim milk, buttermilk, whey and whole milk estimated fed on farms. •Not comparable with earlier years. Source: Economics, Statistics, and Cooperative Service, U.S. Department of Agriculture. Feed Market News.

SOY OIL UTILIZATION

Soy Oil: Utilization, by Products, 1960-78 (Million Pounds)

Year Beginning October	Food					Nonfood							
	Shortening	Margarine	Cooking and Salad Oils 1/	Other Edible	Total	Paint and Varnish	Resins and Plastics	Other Drying Oil Products	Fatty Acids	Other Inedible 2/	Foots and Loss	Total	Total Domestic Utilization
1960	1,097	1,073	793	26	2,989	96	64	4	6	30	139	340	3,329
1961	1,353	1,036	771	20	3,180	88	74	4	—	43	151	359	3,540
1962	1,222	1,069	933	15	3,239	90	78	6	1	47	163	385	3,624
1963	1,391	1,126	1,146	21	3,684	97	84	6	—	42	146	374	4,058
1964	1,404	1,107	1,100	32	3,643	94	105	5	12	45	165	426	4,069
1965	1,739	1,241	1,200	38	4,218	100	104	6	—	53	206	469	4,687
1966	1,691	1,273	1,353	58	4,375	96	97	7	—	61	201	462	4,837
1967	1,816	1,234	1,494	44	4,588	86	97	7	—	59	259	508	5,096
1968	1,978	1,290	1,967	36	5,271	87	94	7	—	61	236	485	5,756
1969	2,255	1,415	2,150	37	5,857	94	79	7	1	47	243	471	6,328
1970	2,077	1,381	2,288	34	5,780	82	65	6	3	49	267	472	6,253
1971	2,089	1,413	2,469	38	6,009	81	55	4	6	34	251	431	6,439
1972	2,230	1,491	2,469	39	6,229	81	57	4	9	35	270	456	6,685
1973	2,321	1,513	2,884	30	6,748	91	77	5	12	43	280	508	7,255
1974	1,882	1,486	2,680	22	6,070	83	58	3	16	28	260	448	6,518
1975	2,416	1,691	3,274	24	7,405	94	66	3	23	21	294	501	7,906
1976	2,189	1,568	3,221	25	7,003	85	83	4	26	32	278	508	7,511
1977 3/	2,433	1,592	3,808	29	7,862	87	79	4	42	29	308	549	8,411
1978 3/	2,653	1,651	3,956	38	8,298	75	88	NA	35	46	310	554	8,852

1/ Adjusted for exports of refined and further processed salad oil. Prior to January 1965 no adjustment made for exports of undeodorized hydrogenated oil. 2/ Includes soap and other miscellaneous. 3/ Preliminary. Source: Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

ESTIMATED PROTEIN CONCENTRATE USAGE

For Feed in the United States, Year Beginning Oct. 1, 1968-78 (1,000 Short Tons) 1/

Protein concentrate	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79 2/
Soybean meal 3/	11,525	13,582	13,467	13,173	11,972	13,766	12,501	15,552	14,001	16,277	17,623
Cottonseed meal	2,086	1,794	1,693	1,885	2,225	2,078	1,807	1,238	1,519	2,026	1,779
Linseed meal	197	182	258	264	212	184	94	84	127	83	95
Peanut meal	135	122	173	174	180	130	151	313	200	89	77
Copra meal	111	83	99	100	100	—	—	—	—	—	—
Gluten feed and meal	963	1,000	1,236	1,067	1,262	1,361	1,340	1,490	1,300	1,223	1,038
Tankage and meat scraps	2,021	2,014	2,039	1,889	1,739	1,854	1,981	2,001	2,175	2,320	2,324
Fish cake and meal	835	567	609	752	462	350	444	508	425	418	493
Dried milk products	235	230	260	330	330	315	4/ 150	147	138	161	155
Total	18,108	19,574	19,834	19,634	18,482	20,038	18,468	21,333	19,885	22,597	23,584

1/ Adjusted for stocks, production, foreign trade and non feed uses where applicable. 2/ Preliminary. 3/ Includes use in edible soy products and shipments to U.S. territories. 4/ Beginning 1974 not comparable with earlier years. Source: Economics, Statistics, and Cooperative Service, U.S. Department of Agriculture.

U.S. EXPORTS OF SOYBEANS

Soybeans: Export by Months, Crop Years, 1953-1979 (Million Bushels)

Year beg. Sept.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	
1953	1.1	5.8	10.1	7.7	3.7	2.5	1.7	3.2	1.6	1.0	1.0	.7	40.1
1955	4.0	8.8	13.2	12.7	6.8	2.6	1.9	5.1	4.3	3.7	3.7	1.7	68.6
1960	8.2	14.1	22.7	20.6	9.1	10.2	8.5	7.7	11.4	7.7	7.7	7.0	134.7
1961	3.6	20.7	23.6	16.5	10.9	10.3	11.0	11.7	12.7	11.9	8.1	8.4	149.4
1962	7.3	22.4	27.4	18.7	3.7	19.3	14.4	14.1	11.6	15.6	14.3	11.8	180.5
1963	7.2	19.8	21.3	21.	17.0	16.2	13.6	17.6	14.0	13.0	11.9	13.7	187.2
1964	11.1	$9.5	27.4	24.4	2.9	11.3	25.0	17.6	17.8	16.1	17.4	11.7	212.2
1965	4.8	32.3	39.4	31.4	19.6	17.1	21.6	20.2	21.5	19.6	12.1	11.1	250.6
1966	5.5	29.4	40.6	29.8	21.9	20.4	17.5	21.7	21.8	20.0	16.8	16.2	261.6
1967	10.3	29.7	39.9	27.2	21.8	18.8	24.1	21.6	20.1	18.7	17.1	17.5	266.6
1968	13.9	32.8	50.0	38.5	1.2	11.4	36.6	34.3	23.8	14.0	18.2	12.1	286.8
1969	13.3	52.5	53.7	39.9	28.7	31.6	39.2	41.2	37.1	38.5	25.2	31.6	432.6
1970	29.9	44.0	45.3	46.9	35.1	33.0	35.1	32.8	30.2	34.9	34.4	31.3	433.8
1971	29.2	29.4	47.4	50.3	42.4	35.5	31.3	37.3	31.7	31.1	26.3	24.9	416.8
1972	15.0	54.3	61.2	49.1	47.7	54.7	59.1	45.5	41.0	26.5	14.2	11.0	479.4
1973	7.5	46.6	74.4	58.0	48.3	56.4	57.9	62.0	43.5	36.1	27.1	21.2	539.1
1974	22.9	32.2	63.2	41.4	50.0	33.3	38.4	35.8	25.1	14.0	31.0	33.4	420.7
1975	24.3	62.7	61.5	49.6	51.8	52.2	52.3	50.5	49.5	47.2	29.2	24.3	555.1
1976	22.2	60.1	67.4	56.7	50.9	59.9	58.4	57.0	55.1	31.0	27.2	18.1	564.1
1977	15.0	77.6	87.7	57.0	52.6	54.4	66.6	72.7	79.3	63.4	34.7	39.3	700.3
1978	38.0	87.5	101.7	70.6	77.0	53.2	83.6	67.8	47.0	41.0	32.7	39.7	739.8*
1979	40.9	88.9	118.1	78.3									

*Bureau of Census figure. USDA figure 753., based on inspections for export. Figures may be adjusted in the future. Source: Grain Market News.

U.S. SOY OIL: SUPPLY AND DISPOSITION

Soy oil: Supply, Disappearance, Oil Equivalent of Exports of Soybeans, and Price, 1960-79

Year Beginning October	Supply				Disappearance				Soybean (Oil Equivalent of Exports) 1/	Price per Pound (Tank Cars)	
	Production	Imports	Stocks October 1	Total	Exports	Shipments to U.S. Territories	Domestic Disappearance Total	Domestic Disappearance Per Capita		Crude, Decatur	Refined, N.Y.
	Million Pounds							Pounds	Mil. Lb.	Cents	
1960	4,420	—	308	5,456	2/700	—	3,329	18.5	1,431	11.3	13.6
1961	4,790	—	677	5,467	2/1,308	—	3,540	19.4	1,685	9.5	11.7
1962	5,091	—	618	5,709	2/1,165	—	3,624	19.5	1,984	8.9	11.1
1963	4,822	—	920	5,742	2/1,106	—	4,058	21.5	2,103	8.5	10.7
1964	5,146	—	578	5,724	2/1,340	—	4,069	21.3	2,265	11.3	13.4
1965	5,800	—	297	6,097	923	25	4,687	24.3	2,764	11.8	13.6
1966	6,076	3/	462	6,538	1,077	28	4,837	24.8	2,930	10.1	12.4
1967	6,032	—	596	6,628	963	30	5,096	25.9	2,972	8.4	10.5
1968	6,531	3/	540	7,071	870	29	5,756	29.0	3,148	8.4	10.4
1969	7,904	—	415	8,319	1,420	29	6,328	31.5	4,941	11.2	13.1
1970	8,265	—	543	8,808	1,742	40	6,253	30.7	4,764	12.8	14.6
1971	7,892	3/	773	8,665	1,398	42	6,439	31.3	4,429	11.3	12.7
1972	7,501	3/	785	8,286	1,066	20	6,685	32.2	5,191	16.5	17.7
1973	8,995	3/	516	9,511	1,435	26	7,255	34.7	6,100	31.5	33.0
1974	7,375	—	794	8,169	1,028	62	6,518	30.9	4,643	30.7	33.0
1975	9,630	—	561	10,191	976	58	7,906	37.2	6,083	18.3	23.5
1976	8,578	—	1,251	9,829	1,547	60	7,454	34.8	6,126	23.9	29.2
1977	10,288	—	771	11,059	2,057	58	8,193	37.9	7,700	24.6	29.6
1978 4/	11,323	—	729	12,052	2,334	75	8,867	40.7	8,283	27.4	32.7
1979 5/	11,719	—	776	12,495	2,200	80	9,320	42.4	8,965	6/ 28.0	—

1/Calculated at 11.0 pounds of oil per bushel. 2/ Includes estimates of foreign donations of fats and oils, not reported by census, 1960-64. 3/ Less than 500,000 pounds. 4/ Preliminary. 5/ Forecast. 6/ Oct.-Dec. average. Source: Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

U.S. EXPORTS: SOYBEANS, MEAL AND OIL

Exports by Country of Destination and Total Value, 1977-1979
(Metric Tons)

Continent and country of destination	Soybeans[1] 1977	1978	1979[4]	Soybean oil[2] 1977	1978	1979[4]	Soybean oilseed cake and meal[3] 1977	1978[4]	1979[4,5]
North America:									
Canada	347,288	381,820	299,495	27,291	27,976	19,845	272,293	363,605	398,469
Mexico	413,163	699,868	407,618	15,327	34,252	729	190,966	96,742	147,435
Other	47,739	75,612	74,134	48,789	55,947	86,268	123,180	130,447	137,368
Total	808,190	1,157,300	781,248	91,407	118,175	106,842	586,440	590,795	683,273
South America:									
Venezuela	NA	NA	NA	504	412	18,988	138,210	168,031	269,077
Other	NA	NA	NA	137,002	160,932	233,153	19,361	9,391	15,657
Total	51,436	179,684	168,984	137,506	161,344	252,141	157,571	177,422	284,734
Europe:									
Belgium and Luxembourg	401,319	517,072	366,234	NA	NA	NA	63,738	25,121	9,007
Czechoslovakia	0	0	1,524	NA	NA	NA	102,276	55,380	230,828
Denmark	421,054	398,980	335,965	NA	NA	NA	35,679	26,062	55,422
France	498,971	647,069	699,036	NA	NA	NA	113,111	203,942	368,915
Germany, Fed. Rep. of	1,506,476	1,555,967	1,263,313	NA	NA	NA	976,890	1,055,075	570,029
Germany, Dem. R.	0	1,000	3,129	NA	NA	NA	24,435	247,941	379,234
Ireland	0	0	0	NA	NA	NA	46,548	88,413	109,141
Italy	796,290	905,615	886,802	NA	NA	NA	472,359	742,157	678,347
Netherlands	3,390,389	4,483,809	4,235,496	NA	NA	NA	442,612	626,413	825,028
Norway	238,961	269,663	236,758	NA	NA	NA	0	0	0
Poland	0	151,274	200,285	NA	NA	NA	177,521	518,495	343,327
Portugal	136,119	149,463	174,051	NA	NA	NA	10,474	129,367	132,679
Romania	137,381	190,513	260,416	NA	NA	NA	47,268	38,279	236,108
Spain	1,205,743	1,639,897	1,774,110	0	0	0	156,077	279,525	213,630
Switzerland	77,130	131,714	45,695	NA	NA	NA	25,035	101,059	20,168
United Kingdom	493,013	707,917	525,750	NA	NA	NA	47,852	96,814	65,746
Yugoslavia	96,390	185,648	251,255	NA	NA	NA	108,488	112,324	81,329
Other	49,499	86,007	130,215	NA	NA	NA	131,464	255,935	194,889
Total	9,449,218	12,021,607	11,390,035	22,400	13,788	27,686	2,956,793	4,602,301	4,513,847

Continent and country of destination	Soybeans[1] 1977	1978	1979[4]	Soybean oil[2] 1977	1978	1979[4]	Soybean oilseed cake and meal[3] 1977	1978[5]	1979[4/5]
Soviet Union:	564,597	744,328	1,817,098	0	0	24,696	0	0	26,979
Africa:	102,607	41,929	45,980	23,978	37,789	58,541	30,402	62,671	8,548
Asia:									
China									
Mainland	47,326	57,002	412,235	61,793	44,203	58,817	NA	NA	NA
Taiwan	621,005	1,070,131	1,100,722	0	20	10	NA	NA	NA
India	NA	NA	NA	229,879	268,176	225,245	3,993	493	0
Indonesia	111,505	107,193	105,750	NA	NA	NA	NA	NA	NA
Iran	NA	NA	NA	49,784	117,841	107,659	56,082	93,625	121,353
Israel	407,048	406,907	366,018	3,108	7,399	9,794	NA	NA	NA
Japan	3,410,364	3,854,953	3,707,192	305	62	132	269,695	267,343	205,056
Korea, Rep. of	166,630	296,113	421,815				0	33,643	77,897
Pakistan	NA	NA	NA	97,936	95,814	163,539	NA	NA	NA
Other	95,657	81,526	83,332	26,246	42,220	65,290	43,218	127,800	160,549
Total	4,909,535	5,873,825	6,197,065	468,951	575,736	630,486	372,988	522,904	564,854
Australia & Oceania:	14,969	589	12,658	29,550	22,449	28,942	29,465	5,016	4,481
Grand Total	16,195,496	20,704,536	20,888,014	773,791	929,282	1,129,334	4,133,659	5,961,109	6,086,715
Value of Exports:									
Total (mill $)	4,393	5,208	5,701	443	569	769	920	1,242[6/]	1,416
Per metric ton	$271.26	$251.54	$272.93	$572.78	$612.42	$680.58	$222.54	$208.35[6/]	$232.71

Note: Figures computed from unrounded data.
[1/] Beginning in 1978, excludes soybeans for planting. [2/] Crude and refined oil combined as such. Includes shipments under P.L. -480 as reported by census. Beginning in 1978, excludes partially hydrogenated soybean salad oil. [3/] Beginning in 1978, includes soybean flour and meal, non-defatted previously elsewhere classified. [4/] Preliminary. [5/] Unofficial revisions reported by the Census Bureau. [6/] Subject to revision. Source: Foreign Agricultural Service. Compiled from reports of the U.S. Department of Commerce.

IMPORTS, EXPORTS CAKE AND MEAL

Oilseed cake and meal: Imports and exports, U.S., year beginning October 1932-1979
(1,000 short tons)

Year beg. Oct.	Imports						Exports					
	Cotton-seed	Soy-bean	Lin-seed	Pea-nut	Copra	Total	Cotton-seed	Soy-bean	Lin-seed	Pea-nut	Copra	Total
1932	3.0	28.3	11.2	†2.3	7.1	51.9	145.8	*	168.0	*	*	313.8
1933	5.0	25.0	8.7	1.2	27.9	67.8	63.1	*	241.7	*	*	304.8
1934	47.4	64.2	10.2	3.5	51.5	176.8	2.9	*	205.5	*	*	208.4
1935	5.7	20.0	17.2	1.9	49.3	94.1	10.6	*	210.6	*	*	221.2
1936	26.8	55.7	15.9	9.6	73.0	181.0	12.6	*	328.8	*	*	341.4
1937	4.6	15.5	5.3	2.2	39.8	67.4	88.5	*	240.3	*	*	328.8
1938	4.4	12.3	7.8	10.5	53.9	88.9	11.6	35.0	286.6	*	*	333.2
1939	33.0	12.1	1.3	9.8	88.4	144.6	4.9	62.3	146.7	*	*	213.9
1940	52.2	8.1	.6	7.5	84.0	152.4	.9	25.4	4.8	*	*	31.1
1941	37.3	0	.2	7.1	22.6	67.2	1.1	19.7	11.1	*	*	31.9
1942	46.8	0	1.0	4.6	0	52.4	1.7	20.9	4.2	.1	.1	27.0
1943	96.3	0	2.5	3.6	0	102.4	.6	16.1	1.5	.1	.1	18.4
1944	87.4	0	10.0	2.5	.1	100.0	‡	10.0	.7	.4	.1	11.2
1945	47.6	‡	1.2	3.1	1.5	53.4	‡	.9	.3	.1	.1	1.4
1946	15.6	0	‡	1.1	.5	17.2	5.3	141.7	4.6	26.2	5.1	182.9
1947	13.8	0.	8.8	3.1	7.0	32.7	9.6	95.7	28.5	3.7	0	137.5
1948	39.4	3.2	8.1	.9	44.3	95.9	121.7	150.1	54.0	21.1	0	346.9
1949	104.8	26.1	4.8	6.2	56.4	198.3	123.6	47.4	6.5	48.9	0	226.4
1950	90.7	32.8	1.0	1.1	65.8	191.4	13.2	181.1	29.2	24.0	.3	247.8
1951	201.9	24.1	23.3	5.2	104.2	358.7	35.0	41.8	7.0	2.2	‡	86.0
1952	135.6	41.1	26.4	3.5	96.5	303.1	55.2	46.8	‡	‡	‡	102.0
1953	69.8	15.6	.6	.7	79.8	166.5	66.1	66.5	34.2	1.4	*	168.2
1954	32.3	0	0	0	62.8	95.1	167.8	271.7	75.0	1.6	*	516.1
1955	59.4	0	0	0	44.9	104.3	155.7	400.4	152.6	30.0	*	738.7
1956	54.6	.1	2.5	0	66.6	123.8	30.1	443.2	42.7	15.0	*	531.0
1957	71.6	1.4	7.9	0	67.5	148.4	7.2	300.0	5.9	1.7	*	322.6
1958	127.5	.‡	4.0	0	30.6	162.1	27.3	512.2	31.2	*	*	570.7
1959	32.3	.1	2.1	0	8.1	42.6	140.2	648.7	62.6	*	*	851.5
1960	45.8	0	2.1	0	18.0	65.9	46.2	589.7	30.9	0	0	666.7
1961	75.5	0	2.1	0	15.5	93.1	25.8	1063.7	28.1	0	0	1117.6
1962	42.0	0	.7	0	8.9	51.6	84.9	1475.7	52.1	0	0	1612.7
1963	30.1	0	.8	0	1/22.9	53.8	54.3	1478.4	61.3	0	1/11.5	1624.2
1964	20.1	0	1.2	0	1/13.6	34.9	138.8	2036.1	72.8	0	1/22.6	2270.4
1965	44.4	0	1.0	0	1/7.1	52.5	98.8	2601.6	113.7	0	1/53.9	2868.0
1966	58.8	0	5.8	0	1/14.8	79.9	7.2	2656.6	93.4	0	1/32.8	2790.1
1967	44.3	0	.3	0	1/4.0	48.6	3.3	2899.4	103.7	0	1/81.4	3087.9
1968	29.5	0	1.7	0	1/4.0	35.2	15.0	3044.3	78.5	0	1/61.0	3198.9
1969	1.1	0	1.9	0	1/6.7	9.7	18.8	4035.4	83.5	0	1/50.5	4188.4
1970	0	0	1.5	0	1/2.2	3.7	27.0	4559.1	110.1	0	1/76.5	4772.7
1971	.1	0	3.0	0	1/10.6	13.7	6.3	3805.4	143.5	0	1/90.3	4045.5
1972	4.3	0	2.2	0	NA	6.5	24.0	4744.8	142.7	0	NA	4911.5
1973	4.6	0	13.6	0	NA	18.2	69.0	5547.6	106.7	0	NA	5723.3
1974	1.0	0	0	0	NA	1.0	11.4	4298.8	143.6	0	NA	4453.8
1975	11.4	0	0	0	NA	11.4	24.1	5144.8	143.1	0	NA	5312.0
1976	2	0	1	0	NA	3.0	50.0	4559.0	87.0	0	NA	4696.0
1977	0	4	4	0	NA	8.0	115.0	6080.0	158.0	0	NA	6353.0
1978	9	0	2	0	NA	11.0	150.0	6610.0	118.0	0	NA	6878.0
1979 3/	4	0	2	0	NA	6.0	155.0	7000.0	130.0	0	NA	7285.0

*Not separately reported. †Calendar year following. ‡Less than 50 tons. 1/ Includes copra and other cake and meal no longer separately reported by Census. 2/ Preliminary based on 11 months' data. 3/ Forecast.

U.S. SOYBEANS: EXPORTS BY COASTAL AREAS AND COUNTRY OF DESTINATION FROM CANADA AND THE U.S.

September 1978-August 1979 (1000 Bushels)

Country	Canadian Ports	Great Lakes	Atlantic	Gulf	Totals 1978-1979	Totals 1977-1978
Australia	—	—	—	—	0	534
Belgium	—	2,752	—	16,989	19,741	18,337
Brazil	—	—	1,977	1,945	3,922	0
Canada	—	12,752	—	—	12,752	9,098
China:						
Mainland	—	—	—	6,299	6,299	3,201
Taiwan	—	—	12,880	26,926	39,806	29,774
Costa Rica	—	—	—	217	217	0
Cyprus	—	—	—	—	0	507
Denmark	169	3,051	5,811	4,192	13,223	15,272
Dominican Republic	—	—	—	578	578	901
Ecuador	—	—	—	100	100	0
Egypt	—	—	—	719	719	1,774
Fed. Rep. of Germany (W)	908	6,378	—	50,634	57,920	56,201
France	548	1,826	13,969	7,659	24,002	21,551
Greece	—	—	—	2,928	2,928	2,272
Indonesia	—	578	—	1,499	2,077	4,812
Israel	1,220	—	4,492	13,899	19,611	13,885
Italy	654	—	970	29,082	30,706	38,971
Jamaica	—	—	—	1,632	1,632	1,650
Japan	5,594	13,570	11,077	125,973	2/ 156,376	3/ 146,610
Korea, Rep. of	—	—	1,229	15,216	16,445	9,060
Lebanon	—	—	576	1,482	2,058	1,016
Malaysia	—	—	—	—	0	4/ 58
Mexico	—	—	1,585	20,866	22,451	17,825
Morocco	—	—	—	—	0	2,181
Netherlands	742	2,964	—	153,162	156,868	151,519
Norway	—	647	—	6,024	6,671	7,948
Other W. Africa	—	—	—	998	998	0
Panama	—	—	—	—	0	18
Peru	—	—	—	830	830	1,286
Philippines	—	—	—	278	278	1,354
Poland	—	553	1,568	588	2,709	4,773
Portugal	698	—	5,883	1,729	8,310	7,881
Romania	1,396	680	1,139	4,680	7,895	10,106
Singapore	—	—	—	887	887	2,011
Spain	5,500	8,913	24,276	23,403	62,092	56,464
Thailand	—	—	—	—	0	323
United Kingdom	—	45	5,355	11,682	17,082	19,184
U.S.S.R.	511	702	3,731	39,602	44,546	31,162
Venezuela	—	—	—	2,049	2,049	2,205
Yugoslavia	—	—	—	8,201	8,201	6,617
Totals: 1978-1979	17,940	55,411	96,518	582,948	2/ 752,979	—
Totals: 1977-1978	21,849	66,114	76,293	533,011	—	5/ 698,341

1/ The quantity of grain inspected at U.S. Ports for shipment to Canada is reduced by the amount of U.S. grain exported from Canadian Ports as reported by Canadian Grain Commission. It is assumed this residual amount of grain is held in Canada for later export or consumption. 2/ Includes 162,000 bushels shipped from Pacific Ports. 3/ Includes 1,016,000 bushels shipped from Pacific Ports. 4/ Shipped from Pacific Ports. 5/ Includes 1,074,000 bushels shipped from Pacific Ports.
Source: Agricultural marketing service, livestock, poultry, grain & seed division, U.S. Department of Agriculture.

U.S. SOYBEANS: INSPECTIONS FOR EXPORT BY GRADES AND BY PORTS

September 1978-August 1979 (1000 Bushels)

Ports	No. 1	No. 2	No. 3	No. 4	Sample Grade	Not Inspected	Total
Lakes 1/							
Chicago Area	—	2,007	2,172	—	—	—	15,896
Duluth-Superior	—	871	442	—	—	—	1,462
Toledo Area	144	51,042	2,469	—	—	—	53,655
Saginaw Area	—	1,471	—	—	—	—	2,338
Subtotal	144	55,391	5,083	0	0	0	73,351
Atlantic							
North	—	1,247	—	—	—	—	18,246
South	119	45,988	599	—	1	3,481	78,272
Subtotal	119	47,235	599	0	1	3,481	96,518
Gulf							
Mississippi River	723	87,422	23,654	463	2,828	4,139	479,476
East Gulf	—	28,156	3,359	—	—	—	65,039
North Texas Gulf	—	4,277	3,057	—	—	1,327	38,433
South Texas Gulf	—	—	—	—	—	—	0
Subtotal	723	119,855	30,070	463	2,828	5,466	582,948
Pacific							
Columbia River	—	—	—	—	—	—	0
Puget Sound	121	11	1	1	1	—	135
California	27	—	—	—	—	—	27
Subtotal	148	11	1	1	1	0	162
Totals:							
September 1978-August 1979	1,134	222,492	35,753	464	2,830	8,947	752,979
September 1977-August 1978	1,858	326,831	69,516	1,922	2,186	2,890	698,341

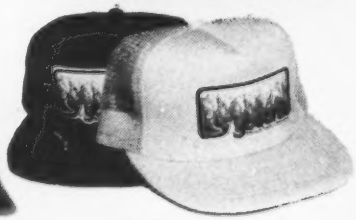
1/ Includes water shipments to Canada. Source: Grain Market News.

SHOW YOUR COLORS

Soybean jewelry, caps and T-shirts are an attractive way to promote the nations number one cash crop. All items are available from the American Soybean Association.

DO IT OURSELVES T-SHIRT

SOYBEAN STICKONS



SOYBEAN CAPS

General Sales
American Soybean Association
Box 27300, St. Louis, MO 63141

Write today for free flyer: General Sales, American Soybean Association
P.O. Box 27300, St. Louis, MO 63141

SOY AND COTTONSEED OIL EXPORTS

Cottonseed and soy oil: U.S. exports for dollars and under P.L. 480 by country of destination, and total value, 1975-78 1/

Country of destination	Year beginning October 1975 P.L. 480	1975 Com. 2/	1975 Total	1976 P.L. 480	1976 Com. 2/	1976 Total	1977 P.L. 480	1977 Com. 2/	1977 Total	1978 P.L. 480	1978 Com. 2/	1978 Total
North America					Million pounds							
Canada	—	81	81	—	67	67	—	70	70	—	59	59
Dominican Republic	—	47	47	2	13	15	1	53	54	20	135	155
Haiti	6	25	31	13	25	38	3	27	30	3	35	38
Mexico	—	7	7	—	34	34	—	66	66	—	11	11
Others	—	46	46	5	49	54	2	44	46	—	88	88
Total	6	206	212	20	188	208	6	260	266	23	328	351
South America												
Argentina	—	—	—	—	—	—	—	—	—	—	—	3/
Brazil	—	—	—	—	—	—	—	—	—	—	—	—
Chile	1	1	2	3	23	26	3	46	49	2	48	50
Colombia	1	30	31	2	59	61	—	97	98	3/	185	185
Ecuador	—	43	43	3/	36	36	3/	57	57	3/	50	50
Peru	—	32	32	2	124	126	11	140	151	29	36	65
Venezuela	—	52	52	—	79	79	—	96	96	1	94	95
Others	—	1	1	2	—	2	—	4	4	—	10	10
Total	2	159	161	9	321	330	14	441	455	32	423	455
Western Europe												
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	2	2	—	5	5	—	3/	3/
Germany, West	—	9	9	—	4	4	—	23	23	—	3	3
Netherlands	—	14	14	—	26	26	—	36	36	—	9	9
Greece	—	—	—	—	—	—	—	—	—	—	3/	3/
Italy	—	—	—	—	3/	3/	—	3/	3/	—	3/	3/
Belgium-Luxembourg	—	14	14	—	12	12	—	4	4	—	1	1
United Kingdom	—	10	10	—	9	9	—	6	6	—	5	5
Others	—	10	10	—	3/	3/	—	29	29	—	9	9
Total	—	57	57	—	53	53	—	103	103	—	27	27
Eastern Europe												
Poland	—	11	11	—	—	—	—	3	3	—	52	52
Yugoslavia	—	22	22	—	—	--	—	—	—	—	—	—
Others	—	—	—	—	11	11	—	—	—	—	—	—
Total	—	33	33	—	11	11	—	3	3	—	52	52
Africa												
Algeria	2	4	6	1	—	1	1	—	1	—	—	3/
Egypt	1	296	297	3	429	432	5	433	438	13	315	328
Guinea	4	1	5	3/	3/	3/	6	—	6	4	—	4
Morocco	2	9	11	7	—	7	6	6	12	5	8	13
Tunisia	—	5	5	2	—	2	2	4	6	3	13	16
Others	—	2	2	—	28	28	—	51	51	31	33	64
Total	9	317	326	13	457	470	20	494	514	56	369	425
Asia and Oceania												
Australia	—	29	29	—	50	50	—	49	49	—	36	36
Bangladesh	79	15	94	9	—	9	58	30	88	17	84	101
Burma	—	—	—	—	—	—	—	—	—	—	—	—
China:												
Mainland	—	—	—	—	—	—	—	234	234	—	130	130
Taiwan	—	2	2	—	—	—	—	—	—	—	—	—
Hong Kong	—	1	1	—	2	2	—	8	8	—	4	4
India	6	29	35	110	446	556	116	430	546	57	342	399
Iran	—	80	80	—	204	204	—	207	207	—	489	489
Israel	—	22	22	—	7	7	—	14	14	—	22	22
Japan	—	54	54	—	45	45	—	59	59	—	82	82
Pakistan	88	244	332	144	119	263	136	98	234	19	341	360
South Vietnam	—	—	—	—	—	3/	—	—	—	—	—	—
Turkey	—	7	7	—	—	—	—	—	—	—	—	—
Others	—	31	31	30	—	30	35	—	35	60	2	62
Total	173	514	687	293	873	1,166	345	1,129	1,474	153	1,532	1,685
Grand total	190	1,286	1,476	335	1,903	2,238	385	2,430	2,815	264	2,731	2,995
Value of exports												
Total (mil. dol.)			337			592			746			903
Per pound (cents)			22.8			26.5			26.5			30.2

1/ Census data. Breakdown between Public Law 480 and commercial provided by the Oilseeds and Products Division, FAS. 2/ Includes Barter, CCC credits. 3/ Less than 500,000 pounds.

UNITED STATES AND BRAZIL: EXPORTS OF SOYBEANS AND PRODUCTS

Item	United States exports (1000 MT)				Brazil exports (1000 MT)				Brazil's exports as share of U.S. and Brazil (%)			
	1975	1976	1977	1978	1975	1976	1977	1978	1975	1976	1977	1978
Soybeans												
European Community	5,747	7,196	7,508	9,216	2,121	1,436	933	365	27	17	11	4
Other Western Europe	1,486	1,686	1,707	2,277	665	571	625	200	31	25	27	8
Eastern Europe	1/ 137	1/ 847	1/ 799	1/ 1,273	1/ 439	1/ 1,187	1/ 552	1/ 32	76	58	41	4
Other	5,126	5,603	6,181	7,939	108	445	477	62	2	7	7	1
Total	12,496	15,332	16,195	20,705	3,333	3,639	2,587	659	21	19	14	3
Soybean meal												
European Community	2,571	2,817	2,199	2,817	1,618	2,502	3,133	3,934	39	47	59	58
Other Western Europe	207	436	251	562	215	308	321	137	51	41	56	20
Eastern Europe	564	921	507	3/ 1,176	1,015	2/ 1,093	1,230	738	64	54	71	39
Other	441	688	1,177	1,360	286	471	670	610	39	41	36	31
Total	3,783	4,862	4,134	5,915	3,134	4,374	5,354	5,419	45	47	56	48
Soy oil												
Bangladesh	29	24	21	27	11	6	10	7	29	20	32	21
Peo. Rep. of China	0	0	62	44	11	6	73	53	100	100	54	55
Iran	68	47	50	118	86	186	115	105	56	80	70	47
Morocco	1	6	5	3	40	26	27	3	98	81	84	50
Peru	18	29	58	63	28	26	7	0	61	47	11	0
Tunisia	10	3/	3	3	16	0	0	0	62	0	0	0
Turkey	6	3	0	3/	34	8	0	0	85	73	0	0
Other	224	401	575	671	38	240	270	336	15	37	32	33
Total	356	510	774	929	264	498	502	504	43	49	39	35

1/ Includes soybean exports to the Soviet Union. 2/ Includes soybean meal to the Soviet Union. 3/ Less than 500 MT. Source: Foreign Agriculture Service.

EXPORTS VEGETABLE OILS

Soy and cottonseed oils: U.S. exports for dollars and under Public Law 480 programs, 1950-78

Year beg. Oct.	Dollars				P.L. 480				
	Barter	CCC Credit	Other 1/	Total	Title I 2/	Title II 3/	Total	Grand Total	% P.L. 480
					Million lbs.				
				SOY OIL					
1950	—	—	490	490	—	—	—	490	—
1955	—	—	274	274	282	—	282	556	51
1960	—	—	283	283	417	21	438	721	61
1961	—	—	624	624	466	218	684	1,308	52
1962	—	—	513	513	540	112	652	1,165	56
1963	31	—	509	540	520	45	565	1,106	51
1964	131	—	477	608	539	193	732	1,340	55
1965	176	21	182	379	324	220	544	923	59
1966	132	47	90	269	522	286	808	1,077	75
1967	67	18	47	132	618	213	831	963	86
1968	75	—	54	129	573	168	741	870	85
1969	444	53	145	642	604	174	778	1,420	55
1970	599	209	131	939	564	239	803	1,742	46
1971	202	273	188	663	394	341	735	1,398	53
1972	98	190	390	678	177	210	387	1,065	36
1973	—	—	1,159	1,159	168	108	276	1,435	19
1974	—	—	884	884	33	111	144	1,028	14
1975	—	—	779	779	182	15	197	976	20
1976	—	—	1,213	1,213	266	69	335	1,548	22
1977	—	—	1,672	1,672	291	94	385	2,057	19
1978 4/	—	—	2,081	2,081	71	182	253	2,334	11
				COTTONSEED OIL					
1950	—	—	57	57	—	—	—	57	—
—									
1955	3	—	306	309	290	6	296	605	49
1960	—	—	287	287	68	14	82	369	22
1961	—	—	183	183	202	86	288	471	61
1962	—	—	206	206	132	51	183	389	47
1963	—	—	328	328	221	35	256	584	44
1964	73	—	367	440	106	93	199	639	31
1965	51	—	154	205	65	2	67	272	25
1966	38	4	33	75	—	1	1	76	1
1967	19	—	28	47	—	2	2	49	4
1968	69	—	68	137	—	2	2	139	1
1969	43	60	348	451	—	1	1	452	5/
1970	186	22	153	361	9	1	10	371	3
1971	182	50	214	446	55	1	6	452	1
1972	232	89	255	576	6	—	6	582	1
1973	—	—	563	563	—	—	—	563	—
1974	—	—	685	685	—	—	—	685	—
1975	—	—	507	507	—	—	—	507	—
1976	—	—	690	690	—	—	—	690	—
1977	—	—	758	758	—	—	—	758	—
1978 4/	—	—	650	650	1/	—	1/	661	2/

1/ Includes dollar financing by AID. 2,3/ Includes allll sales programs, i.e., foreign currencies, which agencies and disaster and other relief by AID. 4/ Preliminary. 5/ Insignificant. Source: Total exports as reported by Bureau of Census. Breakdown between dollars and P.L. 480 from Fats and Oils Division, FAS.

united states standards for soybeans*

REVISED EFFECTIVE SEPT. 8, 1977

Sec.

26.601 Terms defined.
26.602 Principles governing application of standards.
26.603 Grades, grade requirements and grade designations.

AUTHORITY: § § 26.601 to 26.603 issued under sec. 8, 39 Stat. 485; 7 U.S.C. 84. Interpret or apply sec. 2, 39 Stat. 482, as amended; 7 U.S.C. 74.

§ 26.601 **Terms defined.** For the purposes of the United States Standards for Soybeans:

(a) **Soybeans.** Soybeans shall be any grain which consists of 50% or more of whole or broken soybeans which will not pass readily through an 8/64 sieve and not more than 10% of other grains for which standards have been established under the United States Grain Standards Act.

(b) **Classes.** Soybeans shall be divided into the following five classes: yellow soybeans, green soybeans, brown soybeans, black soybeans and mixed soybeans.

(c) **Yellow soybeans.** Yellow soybeans shall be any soybeans which have yellow or green seed-coats and which in cross section are yellow or have a yellow tinge and may include not more than 10% of soybeans of other classes.

(d) **Green soybeans.** Green soybeans shall be any soybeans which have green seedcoats and which in cross section are green and may include not more than 10% of soybeans of other classes.

(e) **Brown soybeans.** Brown soybeans shall be any soybeans with brown seedcoats and may include not more than 10% of soybeans of other classes.

(f) **Black soybeans.** Black soybeans shall be any soybeans with black seedcoats and may include not more than 10% of soybeans of other classes.

(g) **Mixed soybeans.** Mixed soybeans shall be any mixture of soybeans which does not meet the requirements of the classes yellow soybeans, green soybeans, brown soybeans or black soybeans. Bicolored soybeans shall be classified as mixed soybeans.

(h) **Grades.** Grades shall be the U. S. numerical grades, U.S. sample grade and special grades provided for in § 26.603.

(i) **Bicolored soybeans.** Bicolored soybeans shall be soybeans with seedcoats of two colors, one of which is black or brown.

(j) **Splits.** Splits shall be pieces of soybeans that are not damaged.

(k) **Damaged kernels.** Damaged kernels shall be soybeans and pieces of soybeans which are heat-damaged, sprouted, frosted, badly ground-damaged, badly weather-damaged, moldy, diseased, stink-bug-stung, or otherwise materially damaged. Stink-bug-stung kernels shall be considered damaged kernels at the rate of one-fourth of the actual percentage of the stung kernels.

(l) **Heat-damaged kernels.** Heat-damaged kernels shall be soybeans and pieces of soybeans which are materially discolored and damaged by heat.

(m) **Foreign material.** Foreign material shall be all matter, including soybeans and pieces of soybeans, which will pass readily through an 8/64 sieve and all matter other than soybeans remaining on such sieve after sieving.

(n) **Stones.** Stones shall be concreted earthy or mineral matter and other substances of similar hardness that do not disintegrate readily in water.

(o) **8/64 sieve.** An 8/64 sieve shall be a metal sieve 0.032 inch thick perforated with round holes 0.125 (8/64) inch in diameter with approximately 4,736 perforations per square foot.

§ 26.602 **Principles governing application of standards.** The following principles shall apply in the determination of the classes and grades of soybeans.

		Maximum limits of					
Grade	Minimum test bushel per bushel pounds	Moisture	Splits	Total	Heat damaged	Foreign material	Brown, black, and/or bicolored soybeans in yellow or green soybeans
1	56	13.0%	10%	2.0%	0.2%	1.0%	1.0%
2	54	14.0	20	3.0	0.5	2.0	2.0
3†	52	16.0	30	5.0	1.0	3.0	5.0
4‡	49	18.0	40	8.0	3.0	5.0	10.0

U.S. sample grade: U.S. sample grade shall be soybeans which do not meet the requirements for any of the grades from U.S. No. 1 to U.S. No. 4, inclusive; or which are musty, sour or heating; or which have any commercially objectionable foreign odor; or which contain stones or which are otherwise of distinctly low quality. †Soybeans which are purple mottled or stained shall be graded not higher than U.S. No. 3. ‡Soybeans which are materially weathered shall be graded not higher than No. 4.

(a) **Basis of determination.** Each determination of class, splits, damaged kernels, heat-damaged kernels and of black, brown and/or bicolored soybeans in yellow or green soybeans, shall be upon the basis of the grain when free from foreign material. All other determinations shall be upon the basis of the grain as a whole.

(b) **Percentages.** All percentages shall be upon the basis of weight. The percentage of splits shall be expressed in terms of whole percents. All other percentages shall be expressed in terms of whole and tenths percents.

(c) **Moisture.** Moisture shall be ascertained by the air-oven method prescribed by the United States Department of Agriculture, as described in Service and Regulatory Announcement No. 147, issued by the Agricultural Marketing Service or ascertained by any method which gives equivalent results.

(d) **Test weight per bushel.** Test weight per bushel shall be the weight per Winchester bushel as determined by the method prescribed by the United States Department of Agriculture, as described in Circular No. 921 issued June 1953 or as determined by any method which gives equivalent results.

§ 26.603 **Grades, grade requirements and grade designations.** The following grades, grade requirements and grade designations are applicable under these standards:

(a) **Grades and grade requirements for soybeans** (see also paragraph (c) of this section).

(b) **Grade designation.** The grade designation for soybeans shall include in the order named, the letters "U.S."; the number of the grade or the words "Sample grade," as the case may be; the name of the class and the name of each applicable special grade. In case of mixed soybeans the grade designation shall also include, following the name of the class, the approximate percentages of yellow, green, brown, black and bicolored soybeans in the mixture.

(c) **Optional grade designations.** Soybeans may be certificated (under certain conditions[1]), when supported by official analysis, as "U.S. No. 2 or better Soybeans," "U.S. No. 3 or better Soybeans," etc. The optional grade designation for soybeans shall include the name of the class immediately preceding the word "soybeans" in the grade designation. The special grade designation, when applicable, also shall be included (under certain conditions[1]) in the certification.

(d) **Special grades, special grade requirements and special grade designation for soybeans—**

(1) **Garlicky soybeans — (i) Requirements.** Garlicky soybeans shall be soybeans which contain five or more garlic bulblets in 1,000 grams.

(ii) **Grade designation.** Garlicky soybeans shall be graded and designated according to the grade requirement of the standards applicable to such soybeans if they were not garlicky and there shall be added to and made a part of the grade designation the word "garlicky."

(2) **Weevily soybeans — (i) Requirements.** Weevily soybeans shall be soybeans which are infested with live weevils or other live insects injurious to stored grain.

(ii) **Grade designation.** Weevily soybeans shall be graded and designated according to the grade requirements of the standards applicable to such soybeans if they were not weevily and there shall be added to and made a part of the grade designation the word "weevily."

Interpretations (added)

§ 26.901 **Interpretation with respect to the term "distinctly low quality."**

The term "distinctly low quality," when used in the United States Standards for Grain, shall be construed to include grain which contains more than two crotalaria seeds (Crotalaria spp.) in 1,000 grams of grain.

§ 26.902 **Interpretation with respect to the term "purple mottled or stained."**

The term "purple mottled or stained," when used in the United States Standards for Soybeans [see § 26.603(a)] shall be construed to include soybeans which are discolored by the growth of a fungus; or by dirt; or by a dirtlike substance including nontoxic inoculants; or by other nontoxic substances.

*The specifications of these standards shall not excuse failure to comply with the provisions of the Federal Food, Drug and Cosmetic Act.

[1]The conditions are listed in the Grain Inspection Manual, GR Instruction 918.6. Copies may be obtained from the Inspection Division, Federal Grain Inspection Service, U.S. Department of Agriculture, 1400 Independence Avenue, S.W., Washington, D.C. 20250.

SOY FLOUR STANDARDS

	Full-fat soy flour	Low-fat soy flour	Defatted soy flour
Protein (Nx6.25)*	40.0% Min.	45.0% Min.	50% Min.
Protein (Nx5.7)*	36.5% Min.	41.0% Min.	45.0% Min.
Fat (Ether Extract)*	18.0% Min.	4.5% Min.—9.0% Max.	2.0% Max.
Fibre*	3.0% Max.	3.3% Max.	3.5% Max.
Moisture	8.0% Max.	8.0% Max.	8.0% Max.
Ash*	5.5% Max.	6.5% Max.	6.5% Max.

Screen—97% through No. 100 U.S. Standard Screen for each of the above. *Moisture free basis.

DEFINITION

The Products shall be processed from high quality, sound, clean, dehulled yellow soybeans as defined in the United States Grain Standards Act. The soybeans shall be subjected to a thorough initial cleaning operation, that shall substantially remove all foreign material. Disagreeable flavors and odors shall be removed by subjecting the soy material to adequate processing.

Soy flour shall be prepared and packaged under modern sanitary conditions.

The soy flour shall be free from burnt, musty, rancid or other undesirable flavors or odors; free from burnt, scorched or grayish color and free from insects, insect webbing, dirt or other extraneous matter.

Terms used in conjunction with the processing of soybeans and the utilization of soy oil and other soy products.

Soybean(s) — A legume, the botanical name of which is Glycine max (L.) Merrill; a summer annual varying in height from less than a foot to more than 6 feet and in habit of growth from stiffly erect to prostrate; the cultivated plant may reach a height of 3 feet or more; the seeds (soybeans) are borne in pods that grow in clusters of three to five with each pod usually containing two or three or more seeds; the oil content of the soybean varies from 13% to 26% (average 18% to 22%) and from 38% to 45% of protein (on a moisture-free basis); grown for centuries in the Orient and first introduced to the United States early in the 19th century; soybeans grow best in areas having hot, damp summer weather but they can be grown under a great variety of climatic conditions; the term "soybean" has been accepted as standard in the United States in preference to "soya bean," "soy bean," "soybean," or "soja bean"; it is incorrect to use the term "beans" when referring to soybeans.

Soybean Processor — An individual, or a group of two or more individuals working together as a company or firm, whose primary business is the separation of the oil and meal in soybeans; the activities of a processor may also include refining and/or distribution of the oil as well as distribution of the soybean meal or soy protein.

Soybean Processing — The procedures involved in the separation of the oil and the protein meal; there are two types of processes presently used in the United States for this purpose:

(1) **Solvent Extraction** — The process whereby the oil is leached or washed (extracted) from flaked soybeans by the use of hexane as the solvent; the level of oil in the extracted flakes can be reduced to 1% or less by this processing method; the products resulting from the use of this process are designated in the trade as "solvent extracted," e.g. "solvent extracted soybean meal," "dehulled solvent extracted soybean meal," "solvent extracted soy grits," "solvent extracted soy flour." Practically all soybeans processed in the United States are processed by the solvent extraction system.

(2) **Mechanical Processing** — A continuous pressing process, at elevated temperatures, using expellers or screw presses which utilize a worm shaft continuously rotating within a pressing cylinder or cage to express the oil from soybeans after they have been ground and properly conditioned; the oil content of the resulting press cake is reduced to from 4% to 6% by this processing method; although technically incorrect, the products resulting from this type of processing are often referred to as "expeller," e.g. "expeller soybean meal," the term "Expeller" applies specifically to the screw press manufactured by Anderson, IBEC of Strongsville, Ohio, whereas the screw press manufactured by the French Oil Mill Machinery Co. of Piqua, Ohio, is designated as a "mechanical screw press."

A third type of processing, called **Hydraulic Pressing**, is not used at present in the United States to any appreciable extent but is used in some parts of the world for recovering the oil from soybeans and other oil-bearing materials; it is the oldest process known to the vegetable oil processing industry; it consists of an intermittent pressing operation carried out at elevated temperatures in a hydraulic press after the soybeans have been rolled into flakes and properly conditioned by heat treatment.

Crude Soy Oil — Sometimes referred to as crude raw soybean oil; the unrefined oil produced by any one of the procedures described for the processing of soybeans; it is customary to filter the oil and/or allow it to settle after being processed from the soybeans as required by the standard trade specifications.

A mixture of triglycerides composed of unsaturated fatty acids (oleic, linoleic, linolenic) and saturated fatty acids, together with usually not more than 1.5% of free fatty acids and from 1.8% to 3.2% of phospholipids, depending on the quality and kind of soybeans and the procedure used in the processing.

Edible Crude Soy Oil — Soy oil which shall be of any of the following designated types produced from domestic-grown, mature yellow soybeans: (1) expeller pressed, (2) expeller pressed degummed, (3) hydraulic pressed, (4) hydraulic pressed degummed, (5) solvent extracted, (6) solvent extracted degummed and (7) mixtures of any of the above-described types; when the oil is produced by solvent extraction, the name of the solvent used in the process must be given.

Degummed Soy Oil — Sometimes referred to as crude degummed soy oil; the product resulting from washing crude soy oil with water and/or steam or another degumming agent for a specified period of time and then separating the oil-and-water mixture, usually by centrifugation, to remove the phosphatides; it shall not contain more than 0.02% of phosphorus without a discount penalty.

Once Refined Soy Oil — Oil produced from crude soy oil which has been subjected only to the dilute alkali solution (refining) treatment or a comparable chemical treatment.

Fully Refined Soy Oil — The oil produced from crude or degummed soy oil which has been treated with dilute alkali solution (refining), decolorized by treatment with absorbent clay materials (bleaching) and subjected to steam distillation at high temperatures under vacuum (deodorizing).

Edible Refined Soy Oil — Crude or degummed soy oil which has been subjected to special refining processes to adapt it specifically for use in food products; in addition to treatment with alkali, bleaching, partial hydrogenation and deodorization, the oils may be also winterized; these oils are further classified as salad oils, cooking oils or shortenings.

Hydrogenated Soy Oil — During the process of hydrogenation, the soy oil is exposed to hydrogen gas in the presence of heat and a catalyst (nickel, copper chromite) and the hydrogen combines with certain of the chemical components (unsaturated fatty acids) of the triglycerides with a resultant in-

crease in the melting point of the oil; sometimes referred to as "hardening."

Cold Pressed Soy Oil — Soy oil produced from domestic-grown, undamaged, mature, cleaned yellow soybeans by mechanical processing without application of heat, and then filtered. Such oil is usually sold in health food stores.

Winterized Oil — Oil which has been treated in a manner to partially remove the saturated glycerides which have relatively high melting points are soluble only to a limited extent in the unsaturated glycerides; the process consists of chilling the oil slowly and then maintaining it at 5 degrees C (41 degrees F) for a specified period of time and removing the crystallized glycerides from the liquid fraction of the oil by the use of filter presses; soy oil does not require winterizing unless it has been partially hydrogenated to increase stability.

Technical Grade Refined Soy Oil — Includes a wide variety of soy oils that are specially refined and further processed to meet requirements and/or specifications for a definite industrial use.

Soybean Fatty Acids — The product obtained when glycerine is split off from the triglycerides in soy oil by any method of hydrolysis; in the field of industrial usage, soybean fatty acids are usually further classified according to the treatment to which they are subjected subsequent to hydrolysis.

Soybean Soapstock — The byproduct that results from the alkali refining of soy oil; averages about 6% of the volume of crude oil refined; sometimes referred to as "foots" since it accumulates at the bottom (foot) of the refining tank; contract grade should contain not less than 30% total fatty acid.

Acidulated Soybean Soapstock — The product that results from the complete acidulation of soybean soapstock; contract grade should contain not less than 85% total fatty acid.

Soybean Lecithin — The mixed phospholipids product obtained from soy oil by the degumming process, contains lecithin, cephalin and inositol phosphatides, together with glycerides of soy oil and traces of tocopherols, glucosides and pigments; it shall be designated and sold according to conventional descriptive grades with respect to consistency and bleaching; the dehydrated emulsion of mixed phosphatides and soy oil is further processed to produce the commercial grades which may be described as follows: plastic or firm consistency; soft consistency; fluid; unbleached; bleached; and double bleached high-quality commercial lecithin contains 60% to 65% phosphatides.

Break Material — Flocculent material (precipitate) that appears in and can be separated from crude soy oil that has been rapidly heated to temperatures between 250 degrees C and 300 degrees C (482 degrees F and 572 degrees F); found to be very high in ash content, rich in phosphorus, calcium and magnesium; presumed to be derived from phospholipids which are thermally decomposed at these high temperatures; sometimes referred to as "foots."

Sludge — The solid residue which settles to the bottom of the tank or car in which crude soy oil is stored or shipped; cannot be pumped out or removed by rubber-faced scrapers from the surface to which it adheres; steam must be applied to facilitate its removal; sometimes referred to as "tank bottoms" or "foots."

STANDARD SPECIFICATIONS

These have been adopted for certain soy products as follows by the National Soybean Processors Association (NSPA) and made a part of their Trading Rules governing purchase and sale of soybean meal in the United States:

Soybean Cake, Soybean Chips — The product after the extraction of part of the oil by pressure or solvents from soybeans. A name descriptive of the process of manufacture, such as expeller, hydraulic or solvent extracted shall be used as part of the brand name. It shall be designated and sold according to its protein content.

Soybean Flakes, 44% Protein Soybean Meal — Produced by conditioning ground soybeans and reducing the oil content of the conditioned product by the use of hexane or homologous hydrocarbon solvents to 1% or less on a commercial basis; standard specifications are as follows:

Protein (when loaded by seller)	Minimum 44.0%
Fat	Minimum 0.5%
Fiber (when loaded by seller)	Minimum 7.0%
Moisture (when loaded by seller)	Minimum 12.0%

Dehulled Soybean Flakes, 49% Protein Solvent Extracted Soybean Meal — Produced by cracking, heating and flaking dehulled soybeans and reducing the oil content of the conditioned flakes by the use of hexane or homologous hydrocarbon solvents to 1% or less on a commercial standard specifications are as follows:

Protein (when loaded by seller)	Minimum 49.0%
Fat	Minimum 0.5%
Fiber (when loaded by seller)	Minimum 3.3%
Moisture (when loaded by seller)	Minimum 12.0%

SOY PROTEIN

The following terms and their definitions are quite widely used and accepted in the trade in conjunction with the production and utilization of soy flour and other soy products.

Protein — A naturally occurring combination of amino acids, containing the chemical elements carbon, hydrogen, oxygen, nitrogen and usually sulphur; one of the essential constituents of all living things and of the diet of the animal organism.

Amino Acids — Chief components and determinants of the characteristics of a protein; the building blocks of living tissues. Eighteen different amino acids commonly occur in our food supply and eight are considered essential because the body cannot make them.

glossary . . .

Soy Grits and/or Flour — The ground, screened, graded product obtained after extracting most of the oil from selected, sound, clean, dehulled soybeans. They are produced from grinding the defatted soy flakes. Grits are coarser ground than soy flour. Protein range is 40% to 60%.

Defatted Soy Flour — Flour produced by the nearly complete removal of the oil from soybeans by the use of hexane or other homologous hydrocarbon solvents; usually contains about 1% of fat.

Low-fat Soy Flour — Flour produced either by partial removal of the oil from soybeans or by adding back soy oil and/or lecithin to defatted soy flour to specified level, usually in the range of 5% to 6%.

High-fat Soy Flour — Flour produced by adding back soy oil and/or lecithin to defatted soy flour to a specified level, usually in the range of 15%.

Full-fat Soy Flour — Flour containing all of the oil originally present in the raw soybeans; usually contains 18% to 20% of fat.

SOY PRODUCTS

The following have been adopted officially by the American Feed Control Officials Inc. (AFCO):

Ground Soybeans — The product obtained by grinding whole soybeans without cooking or removing any of the oil; [sometimes erroneously called "soybean meal."] (Adopted 1933.)

Soybean Hulls — The product consisting primarily of the outer covering of the soybean. (Adopted 1948.) NSPA states that a typical analysis is 13% moisture.

Solvent Extracted Soybean Feed — The material resulting from the partial removal of protein-free and nitrogen-free extract from dehulled, solvent extracted soybean flakes; it shall be designated and sold according to its protein content. (Adopted 1948. Amended 1960 and 1964.)

Soybean Meal — The product obtained by grinding the cake, chips or flakes which are products obtained by removal of most of the oil from soybeans by several methods, hydraulic, expeller and solvent extracted, respectively; the name must include one of the terms "Hydraulic," "Expeller" or "Solvent Extracted" to indicate the method of manufacture of the source material; heat shall be applied during the process; it may be sold in various physical forms other than "meal," such as "cubes," "pellets," "pea size," "cake," "chips" or "flakes"; it must be designated and sold according to its protein content [and shall contain not more than 7% crude fiber.] (Proposed 1960. Adopted 1961.)

Dehulled Solvent Extracted Soybean Meal — The product obtained by grinding flakes which are obtained by removing most of the oil from dehulled soybeans; heat shall be applied during the process; it must be designated and sold according to its protein content and must not contain more than 3% crude fiber. (Proposed 1960, Adopted 1961.) NSPA states not less than 3.3% fiber, not more than 49% protein and not greater than 0.5% fat.

Soybean Mill Run — The product resulting from the manufacture of dehulled soybean meal and is composed of soybean hulls and such bean meats that adhere to the hull in normal milling operations; it shall contain not less than 11% crude protein and not more than 35% crude fiber. (Proposed 1960, Adopted 1961.) NSPA states that a typical analysis is 11% crude protein, 35% crude fiber and 13% moisture.

Heat Processed Soybeans — The product resulting from heating whole soybeans without removing any of the component parts; it may be ground, pelleted, flaked or powdered; it shall be sold according to its protein content. (Proposed 1960, Adopted 1964.)

Soybean Mill Feed — The byproduct resulting from the manufacture of soy flour or grits and is composed of soybean hulls and the offal from the tail of the mill; it shall contain not less than 13% crude protein and not more than 32% crude fiber. (Proposed 1960, Adopted 1961, Amended 1964.) NSPA states that a typical analysis is 13% crude protein, 32% crust fiber and 13% moisture.

Lecithinated Soy Flour — A type of low-fat or high-fat soy flour in which lecithin is added to defatted soy flour to a specified level, usually in a range up to 15%.

Soy Protein Concentrate — Produced from defatted soybean flakes or flour by a process which immobilizes the protein and removes soluble sugars, mineral, etc. Concentrate has a protein content of 70%.

Isolated Soy Protein — Protein which has been greatly concentrated from its native location by chemical or mechanical means. It is produced by extracting white flakes or flour with water or a mild alkali. Isolate generally has a protein content of 90%.

Textured Vegetable Protein — Soy or other vegetable protein that has texture imparted by spinning a fiber and combining the fiber in layers to achieve the desired texture, or by a thermoplastic extrusion process.

Meat Analogs — Material usually prepared from vegetable protein to resemble specific meats in texture, color and flavor.

Meat Extenders — Use of soy or other vegetable proteins as partial substitutes for meat in processed items such as patties, chili, casseroles, etc.

Toasting — The term commonly but erroneously applied to the processes (moist) of cooking soybean meal, flour or grits by atmospheric or pressure methods for the purpose of increasing the protein efficiency of these soy products or improving their functional properties and/or improving physical texture.

category listings

A

Adhesives, plywood 57
Aeration and drying equipment 64
American Soybean Assn. 7
American Soybean Assn. Market Development Foundation 10
American Soybean Assn. Research Foundation 10
Analysts 93
Aspirators 59
Automatic samplers 59
Automation 59

B

Bag manufacturers 60
Bagging equipment 60
Bearings 60
Belting 60
Bleaching and filtering equipment 115
Breakfast foods 45
Brokers, commission merchants, jobbers 96

C

Canners of soybeans 45
Catalysts 117
Chains 61
Coated fabrics 57
Coated papers 57
Commission merchants 96
Complete processing and refining plants 117
Construction contractors 100
Consultants 100
Control instruments 120
Conveyors, elevators 61
Cooking oils 49

D

Degumming equipment 121
Deodorization equipment 121
Drying and aeration equipment 64
Dust control systems, dust collectors 66
Dust pelletizing 66

E

Electrolyzers 122
Elevator buckets 66
Elevators, conveyors 61
Engineering services 103
Equipment and Supplies 59
Exporters 105

F

Fans 67
Farm equipment 67
Farm processing equipment 82
Farm storage 89
Fat splitters 122
Fatty acid distillation equipment 122
Fatty acids, soybean 58
Fertilizers 69
Filtering equipment 115
Flakes and grits 51
Food Protein Council 10
Foreign Agricultural Service 17
Fumigants 70
Fungicides, seed protectants 70
Futures market 110

G

Glues, plywood adhesives 57
Grain analyzers 70
Grain dryers 64
Grain grading equipment, moisture testers 75
Grain handling equipment 72
Grain and seed cleaning equipment 73
Grinding and mixing equipment 76
Ground meat binders 45

H

Herbicides, insecticides, pesticides 78
Hopper cars, covered 113
Hydraulic pressing equipment 124
Hydrogenation equipment 122

I

Industrial soy flour 57
Industrial lecithin 57
Industrial Products Manufacturers 57
Industrial soy oil 57
Inoculants 80
Insecticides 78

J

Japanese Manufacturers of Soy Protein 35
Jobbers 96

category...

L

Laboratory equipment 80
Laminating 58
Lecithin, edible 45
Lecithin, industrial 57
Level indicators 80

M

Margarine equipment 124
Margarine manufacturers 46
Market analysis 110
Material level indicators 80
Materials handling equipment 72
Meal dryers 65
Meat analogs 47
Milling service 111
Miscellaneous equipment 82
Miscellaneous processing and refining equipment (extruders) 124
Miscellaneous services 111
Miscellaneous soy food 47
Mixing equipment 76
Moisture testers 75

N

National Soybean Processors Assn. 11
Neutralization equipment 126
News wires 99
Non-U.S. Processors 27

O

On-farm processing equipment 82
Ontario Soya-Bean Growers Marketing Board 11

P

Packaging equipment 91
Paints and varnishes 58
Pelleting equipment 85
Pesticides 78
Plywood adhesives 57
Power transmission equipment 85
Protein concentrates 54
Protein isolates 54
Protein plants 126
Proteins, spun soy 54
Proteins, textured soy (extruded) 54
Pumps 85

R

Research & Development 111
Resins 58
Roasted soybeans 47

S

Salad and cooking oils 49
Samplers, automatic 59
Screw presses 120
Seasonings 50
Seed cleaning equipment 73
Seed protectants 70
Separating equipment 73
Services 93
Shortening equipment 127
Shortening, salad and cooking oils 49
Sifters 85
Soaps 58
Soapstock equipment 127
Solvent extractors 120
Solvent recovery 127
Solvents 129
Soy beverages 50
Soy flour, flakes and grits 51
Soy flour, industrial 57
Soy flour mixes 52
Soy flour standards 169
Soy Foods Manufacturers and Handlers 45
Soy oil, edible 53
Soy oil, industrial 57
Soy Oil Refiners 41
Soy Product Processing Equipment & Supplies 115
Soy protein concentrates 54
Soy protein isolates 54
Soy proteins 53
Soy Proteins, Japanese Manufacturers 35
Soy sauce 54
Soy sterols and tocopherols 54
Soybean breeders (private) 112
Soybean fatty acids 58
Soybeans for cooking and sprouting 50
Soybean seed 113
Soybean storage 87
Soybean Terms 170
Spraying equipment 89
Spun soy proteins 54
State Experiment Station Research 12
Storage, elevator and processor units 87
Storage, farm units 89

T

Tank and covered hopper cars 113
Temperature systems 89
Textured soy proteins (extruded) 54
Tofu Manufacturers and Soy Dairies 55
Transportation 113
Truck lifts 91

U

United States Standards for Soybeans 168
Unloaders 91
U.S. Department of Agriculture 15
U.S. Processors 19

V

Varnishes 58

W

Warehousing and handling for export, import 109
Warehousing, field 110
Weighing and packaging equipment 91
Whipping agents 55
Winterization equipment 129

index of tables

EXPORTS & IMPORTS:

U.S. Agricultural Exports: Value by Commodity Group (chart) 132
U.S. & Brazil: Exports of Soybeans & Products 166
U.S. Exports, Imports of Cake & Meal 162
U.S. Exports: Soybeans 158
U.S. Exports: Soybeans, Meal & Oil 160,161
U.S. Exports: Soybeans & Products (chart) 131
U.S. Exports: Soy & Cottonseed Oil 165
U.S. Exports: Vegetable Oils 167
U.S. Soybeans: Exports by Coastal Area & Country of Destination 163
U.S. Soybeans: Inspection for Export by Grades & Ports 164

MEAL:

Number of U.S. Soybean Processing Plants 150
Oilseed Cake & Meals: Supply & Disposition 153
U.S. Estimated Protein Concentrate Usage 158
U.S. Production of Protein Concentrates 156
U.S. Soybean Meal: Average Wholesale Price, Chicago 151
U.S. Soybean Meal: Average Wholesale Price, Decatur (chart) 134
(table) 151
U.S. Soybean Meal: Prices Paid by Farmers 150
U.S. Soybean Meal: Production, Stocks & Disappearance 152

METRIC CONVERSION TABLE 136

OILS & FATS:

Food Fats & Oils: Domestic & Per Capita Disappearance 156
Food Fats & Oils: Exports, Imports & Production 155
U.S. Soy Oil Prices (chart) 135
(table) 154
U.S. Soy Oil : Supply & Disposition 159
U.S. Soy Oil Utilization 157
World Fats & Oils Production 137

SOYBEANS:

Canadian Soybean Production 140
Canadian Soybean Production & Utilization 140
U.S. Soybean Acreage, Yield & Production by State 142,143
U.S. Soybean Crop Value 145
U.S. Soybean Price Support Operations 147
U.S. Soybean Production 141
U.S. Soybeans: Farm Marketings by Month 144
U.S. Soybeans: Production, and Farm Disposition 144
U.S. Soybeans: Prices, No. 1 Yellow (chart) 133
(table) 146
U.S. Soybeans: Prices Received by Farmers 146
U.S. Soybeans: Supply & Disposition 148
U.S. Soybeans: Value of Products 149
World Soybean Production 138,139

directory, alphabetical listings

A

A/S De-No-Fa og Lilleborg Fabriker 38
Aarhus Oliefabrik A/S 31
Aceitales S.A. 30
Aceitas y Derivados del Pacifico S.A. 37
Aceite S.A. 36
Aceite Casa S.A. 37
Aceitera La Junta S.A. 37
Aceitera del Noro-este S.A. 37
Aceitera el Salto S.A. 37
Aceitera Talca S.A. "Aceital" 30
Aceitera Tapatia S.A. 37
Aceites y Alcoholes "Patria" S.A. 30
Aceites, Grasas y Derivados S.A. 37
Aceites y Grasas Vegetales S.A. "Acegrasas" 30
Aceites Industriales el Zapote S.A. 38
Aceites del Mayo, S.A. de C.V. 38
Aceites Polimerizados S.A. 37,43,58
Aceites y Proteinas S.A. 36
Aceites y Proteinas S.A., Aceprosa 39
Aceites Vegetales S.A. (Acevesa) 39
Barton Addison & Sons Pty. Ltd. 28,52
ADM do Brasil TVP — Tecnologia em Vegetais e Proteinas S.A. 28
ADM - De Ploeg B.V. 38
Africa S.A.R.L. 44
Agro Industrial Miraflores S.A. 30
Ajinomoto Co. Inc. 35
Al Arz Industries 27
Alimentos Clopac 45,47,51,52,55
All-Fresh Foods Inc. 46,47,49
All Sincere Industrial Co. Ltd. (ASIC) 39
American Grain & Related Industries 21
La American Grasas y Aceites Comestibles S.A. 30
American Lecithin Co. 46
Anderson Clayton & Co. 19,24
Anderson Clayton Foods 41,43,46,50
Anderson Clayton S.A. 28
Anderson, Clayton S.A. de C.V. 37
Angola Soya Co. 20
Archer Daniels Midland Co. 20,22,24,25,41,42, 45,49,51,53,54,55,57,58
Arlesa, Aceiterias Reunidas de Levante S.A. 39
Arlesa-Exisa 39
Arlesa-Extrasur 39
Arlesa-Savycsa 39
Asahi Yushi Co. Ltd. 34
Azumaya Inc. 55

B

BOCM Silcock Ltd. 31
Beatrice Foods Co. 46
Behpak Industrial Co. Ltd. 33
Bernard Food Industries Inc. 55
Best Foods Div., CPC International Inc. 41,42, 46,47,49,53
J. Bibby Edible Oils Ltd. 31
Boone Valley Co-op Processing Association 21
Braswey S.A. Industria E. Comercio 29
The British Arkady Co. Ltd. 31
British Soya Products Ltd. 31
Broekelmann & Co. 32
Brookside Div., Safeway Stores Inc. 43,46,49,50
Buckeye Cellulose Corp. 19,20,25
Bunge Corp. 20,21,22
Bunge Edible Oil Co. 42,43

C

C.A. Grasas de Valencia 40
CSP Foods Ltd. 29
Calixto Romero S.A. 38
Canada Packers Inc. 43,47,50,58
Canadian Vegetable Oil Processing Div., Canada Packers Inc. 30
Capital City Products Co. Div., Stokely-Van Camp Inc. 42,46,50,53,58
Cargill B.V. 38
Cargill Inc. .19,20,21,22,24,25,41,42,51,53,55,57,58
Celanese Polymer Specialties Co. 58
Central Cotton Oil 20
Central Soya 20,21,25,42
Central Soya, Chemurgy Div. 45,49,51, 53,54,55,57,58
Central Soya Utrecht B.V. 38
Chia Fha Industry Co. Ltd. 40
Chia Hsin Flour, Feed & Vegetable Corp. 40
Chuan Yuan Oil Mill Co. Ltd. 39
Chung Hsing Solvent Oil Factory Co. Ltd. 40
Cia. Marocaine d'Huillerie (C:M.H.) 43
Cia. Norpa Industrial 29
Cia. Oleanginosa Ltda. KM. 28
Cia. Swift do Brasil S.A. 29
W.A. Cleary Corp. (Cleary Trading Corp.) 46
Coca Cola Co. 50
Cole Grain Co. 25
Columbus Coated Fabrics Co. Div. Borden Chemical, Borden Inc. 57
Companhia Mogiana de Oleos Vegetais 29
Compania Industrial 30
Compania Industrial y de Abastecimientos, S.A. 38
Compania Oleaginosa del Peru S.A. 38
Continental Grain Co. 19,20,24,25,41,42

Continental (London) Ltd. 31
Contrijui Cooperative Regional Triticola Serrana Ltda. 29
Coop. Agricole et Industrielle Zouila 44
Coop. Oleicole TNE 44
Cooperativa Agricola Avicola Santiago Ltd. Avicosan 30
Cooperativa Triticola Mista Alto Jacui Ltd., Cotrijal 28
Cooperativa Triticola de Passo Fundo Ltda. 29
Crav S.A. 51,52,55
Crest Products Inc. 51
Patrick Cudahy Inc. 50
Custom Food Products Inc. 45,47,50

D

Dairyland Products Inc. 45,51,53
Dansk Sojakage-Fabrik A/S 31
Dawson Food Ingredients, Inc. Div. Dawson Mills 45,47,51,53,54,55
Dawson Mills 22
Delta Products Co. 19
DeSoto Inc. 58
Dongbang Oil & Flour Mills Co. Ltd. 36
E.I. Du Pont de Nemours & Co. Inc. 58
P. Dumortier Freres S.A. 32
Dundale Bulk Produce Ltd. 53
Durkee Foods Div., SCM Corp. 41,42,47,50,53

E

Eagle Industry Corp. 40
The Edible Oil Refining Co. Ltd. 43
Edible Soy Products Inc. 47,53
Emery Industries Inc. 58
Erith Oil Works Ltd. 31
Etz Hazaith Ltd. 33
Eurosoya S.A. 32
Extracted Oils & Derivatives Co. 27
Extractora Nacional de Oleaginosas S.A. (Endosa) 40

F

FFPM Ltd., joint venture of Fuji Oil Co. & Ralston Purina 36
Fabrica de Aceite Villa-Montes Rafael Deheza 28
Fabrica de Aceites "La Central" S.A. 37
Fabrica de Aceites "La Favorita" S.A. 31
Far-Mar-Co. Inc. 45,47,51,53,55
Farmland Industries Inc. 19,21,24,42,51
Fearn Soya Foods Div., Richard Foods Corp. 45,50,51,52,53,54
Fecotrigo 29
J.H. Filbert, Inc. 46,49
First Spice Mixing Co. 45,50
Flavor Tree Foods Inc. 47
Florin Ltd. Oil and Fatworks 39
Food Service Div., The Miami Margarine Co. 46,50
Food Technology Inc. 45
Fritz Homann Lebensmittelwerke GmbH & Co. KG 47,50
Fuji Oil Co. Ltd. 35
Fujiwara Hisato S.A. 29

G

Galletera Mexicana S.A. (GAMESA) 36,46
Garrison Products Inc. 47
Giacomo Costa Fu Andrea 34
Glidden Coatings & Resins Div., SCM Corp. 58
Glucosa S.A. 53,54
Gold Kist Inc. 20
Gold Kist Soy 19,20,24
Grain Processing Corp. 54
Grain States Soya Inc. 24
Grasas S.A. 30,46,53,55
Grasas Vegetales S.A. 31
Grasas y Vegetales S.A. 37
Great China Food Products Co. 54
Great Wall Enterprises Co. Ltd. 40
Griffith Laboratories 45,54
A. Gross & Co., Millmaster Onyx group, Kewanee Industries Inc. 58
Gunther Products, Protein Div., A.E. Staley Manufacturing Co. 53,55
Gurley's Inc. 24

H

Harburger Oelwerke Brinckman & Mergell 32
Hartsville Oil Mill 25,42,50
Hellenic Soyabean-Soyaoil Industry "E.B.E.S.S. S.A." 33
Henkel Corp. 53,54
Hidrogenadora Nacional S.A. 38
Hohnen Oil Co. Ltd. 35,36
Holsum Foods 46
Honeymead Products Co. .22,42,46,49,51,53,57,58
Hsiaokang Sugar Mills TSC 39
Huie Sheng Oil Mill Co. Ltd. 40
Huileries Alsaciennes S.A. 32
Huileries de Meknnes 43
Huilerie's du Souss 43
Humko Products, Kraft Inc. 41,43,49,50
Hunt-Wesson Foods Inc. 41,42,43,49,50

I

I.P.V. Industria Proteine Vegetali S.p.A. 54
Iberol, Sociedade Iberica de Oleaginosas, S.A.R.L. 38
Inari, Ltd. 47
Incobrasa, Industrial e Comercial Brasileira S.A. 29
Industrial Aceitera S.A. 38
Industrial de Alimentos 51,52,55
Industrial Jabonera la Esperanza S.A. 37
Industrias de Aceite S.A. 28
Industrias Ales C.A. 31
Industrias Conasupo S.A. 36,37
Industrie Chimiche Italia Centrale 34
Interfood Deutschland GmbH 53
Isfahan Industries & Vegetable Oil Co. 33
Italiana Olii e Risi S.p.A. 34
Italso S.p.A. 34
Izhar Oil Industry of Israel Ltd. 34

J

Jamaica Soya Products Industrias Ltd. 34
Japan Protein Industry Co. Ltd. 36
Japan Soy Protein Co. Ltd. 35
Japan Soya Products Co. Ltd. 34

K

Kato Oil Mill Co. Ltd. 35
Kelsa S.A. 39
Keshto Sanat Khavar Dasht Co. 33
Kikkoman International Inc. 54
Kjowa Hakko Kogyo Co. Ltd. 36
Korea Livestock Development Co. Ltd. 36
Kraft Inc. 46,49
Kuner Nahrungsmittel GmbH 43

L

Land O'Lakes Inc. 21,22
Lauhoff Grain Co. 20
Leeds Laboratories Ltd. 46
Lesieur 43
Lever Bros. Co. 41,42,46,49
Liberty Vegetable Oil Co. 19,41
Liquifarm-Gruppo Industrie Alimentari S.p.A. 34
Las Llaves S.A. 40
Lloreda, Grasas y Aceites Vegetales S.A. 30
Loma Linda Foods 45,47,51
Lonza Inc. 47
Lou Ana Foods Inc. 42
Lucas Meyer 46,52,57
Lucas Meyer (America), Inc. 45,51,57

M

M.F.A. Grain Marketing Div.,
Missouri Farmers Association Inc. 24,42
MacDowell Bros. 51,52
Malt-O-Meal Co. 47
Mandarin Soy Sauce Inc. 54
Mangliagaon (M.P.),
General Foods Private Ltd. 33
Maple Leaf Monarch Co. 30
Margarinbolaget AB 44
Matsuda-Hinode Tofu Co. 50,55
Meggitt Ltd. 28
Merlin S/A Ind. e Com. de Oleos Vegetais 29
Miles Labortories Inc. 47,53,54
Miles-Kyowa Co. Ltd. 36
Mississippi Cottonseed Products Co. 22,24
El Molino Mills Div., ACG Co. 50,51
Los Molinos S.A. 36,52
Molinos Union Del Yaqui S.A. de C.V. 36
Monarch Fine Foods Co. Ltd. 43,46,50

N

N.V. Vamo Mills 28
Nabisco Inc., Protein Foods Div. 47,55
Nashville Oil Mill Corp. 25
Nattermann Chemie GmbH 46,57
Negociacion Industrial Santa Lucia S.A. 37
Sterling H. Nelson & Sons Inc. 51
Ne-Tex Cooperative Oil Mill 25
New England Soy Dairy 51,55
Nihon Koyu Co., Ltd. 35
Nikka Fats & Oils Co. Ltd. 35,36
The Nissin Oil Mills Ltd. 35,36
Noblee & Thorl GmbH Div.,
Henkel KGaA 43
North American Laboratory Co. Inc. 45,50,55
North West Vegetable Oils Pty. Ltd. 28
Nuttelex Food Products, Pty. Ltd. 46

O

Oelmuhle Hamburg AG 32
Oelwerke Noury & Van Der Lande 32
Oleaginosas de Occidente S.A. 37
Oleagineux du Gharb 43
Oleagri 32
Oleica S.A. 31
Oleificio Fratelli Belloli SAS 34
Oleos Vegetais Taquarussu S/A 28
Olivex Ltd. 34
Oljynpuristamo OY 31
Olvebra SA—Industria e Comercio de o
Oleos Vegetais 29
Ordu Soya Sanayiimuessesesi,
affiliate of Sumerbank 40
J. Oszowski & Cia. Ltd. 29
Owensboro Grain Co. 22
OY Kasvioljy 31

P

PPG Industries Inc. 58
PVO International Inc. 19,41,42,46,49,53,58
Pacific Resins & Chemicals Inc. 57
La Palma S.A., Industrias Gonzales S.A. 37
Pars Animal Feed Co. 33
Pars Vegetable Oil Co. 33,58
Perdue Inc. 22
Pfeiffers Foods Inc. 50
Pioneer Specialty Foods 49
Plains Cooperative Oil Mill Inc. 25
Planters Manufacturing Co. 22
Planters Oil Mill Inc. 24
President Enterprises Corp. 40,51,54
Proctor & Gamble Co. 58
Proctor & Gamble Distributing Co 50,53
Proctor & Gamble Inc. 43
Proctor & Gamble Manufacturing Co. 41,42,43
Producers Cooperative Association 22
Producers Cooperative Oil Mill 25
Productos Nutricionales S.A. de C.V. 47
Productos Nutricionales S.A. (Pronasa) 55
Promasa S.A. 40
Proteinas y Grasas S.A. 39

Q

Quincy Soybean Co. 20
Quoung Hop 50,55

R

Ralston Purina Co. 20
Ralston Purina Co. Soybean Div. 20,21,22,24,25
45,53,54,55,57,58
Reichold Chemicals Inc. 58
Riceland Foods 19,41,45,49,53,57
Rinoru Oil Mills Co. Ltd. 35,36
Robbe-Hyfran S.A. 32
The Robertson Corp. 51
Romero Hermanos S.A. 38
Ross & Rowe Div.,
Archer Daniels Midland Co. 45,57
Rual Garcia y Cia., S.A. 37
S.E. Rykoff & Co. 49
Ryttervik Fabrikker,
affiliate of Jens Hetland 38

S

S/A Moinhos Rio Grandenses (Samrig) 29
S.A. Oil Mills (Pty.) Ltd. 44,52
SAIS 39
S.E.P.O. 38
S.I.G.O.H.A.R.B. 38
Sampyo Foods Co. Ltd. 36
Sanitarium Health Food Co. 47,51
Santo Pipo Tungoil Soc. Coop. Ltda. 28
Sarandi N.V. 28
Sathrop 44
Savonnerie Africaine S.A. 44
Scaldiswerken Ruien N.V. 28
Jb Schmidt Soehne 33
Selaata Terminal, Ste. Huiles et Derives S.A.L. 36
O. & L. Seis KG 33
John Sexton & Co. Div., Beatrice Foods Co. 49
Shedd's Food Products 46,47,49
Shemen Industries Ltd. 33
Sherkate Sahami Rowghan Nabati Jahan 33
Sherman Oil Mill, affiliate of Chickasha Cotton Oil Co. 25
Sherwin-Williams Co. 58
J.R. Short Milling Co. 20
Showa Sangyo Co. Ltd. 35,36
C.F. Simonin's Sons Inc. 42,50
Sindi S.A. 38
Sios-Zitex 44
Slama Freres S.A.R.L. 44
Smoilive 44
Soc. Algodoeira do Nordeste Brasileiro S.A. (SANBRA) 29
Sociedad Agricola King Ltda. 30
Sociedad Iberica de Molturacion S.A. (SIMSA), affiliate of A. E. Staley Manufacturing Co. 39
Sociedad Industrial Dominicana, C. por A. ...31,53
Societa Internazionale Olearia S.p.A. 34
Societe Anonyme Dietebiol 31
Societe Industrielle des Oleagineux 32
Societe Oleicole de Meknnes (S.O.M.E.) 43
Sohaci, Ste. Hadrumete, Commerciale et Industrielle S.A.R.L. 44
Soja France S.A. 32
Solnuts B.V. 49
Somataz 43
Southern Packers Pty. Ltd. 43,50,58
Southern Soya Corp. 25
Soy Products of Austrailia Pty. Ltd. 28
Soya Foods Ltd., affiliate of Spillers French Milling Ltd. 31
Soya France S.A. 31
Soya GmbH Mainz Kommanditgesellschaft 32
Soya Mills S.A., Subsidiary of Eleourgia ke Vamvakourgia Thessaionikis S.A. 33
Soyabean Extraction Private Ltd. 33
Soypro International 51
Special Foods Co. 52
Speelamn's Oliefabrieken B.V. 38
Spencer Kellogg Div., Textron Inc. 42,57,58
A.E. Staley Manufacturing Co. ...20,21,41,49,53,57
A.E. Staley Manufacturing Co., Protein Div. ..45,51 54,55,57
Ste. Maonastirienne 44
Ste. Marocaine pour L'Industrie Oleicole (Somio) 43
Ste. Moncef, Abdelmaoula 44
Ste. Starhuil 44
Strayer Seed Farms Inc. 50
Super Pollo Inc. Co. 30
Swift-Armour S.A. Industria e Comercio 29
Swift Canadian Co. Ltd. 43
Swift & Co. 41,46,49

T

Tagol, Companhia de Oleaginosas do Tejo S.A.R.L. 39
Tai Hwa Oil Industrial Co. Ltd. 40
Tai Shing Veg. Oil Ind. Co. 40
Tavlin Ltd. Oil & Soap Factory 34
Tay Shan Enterprise Co. Ltd. 39
Teth-Beth Ltd. 34
Thanakorn Vegetable Oil Products Co. Ltd. 40
Thorl's Vereinigte Harburger Oelfabriken 32
C. Thywissen 33
Tiger Protein Industries (Pty.) Ltd., subsidiary of Tiger Oats & National Milling Co. 55
Tokyo Branch of Nihon Koyu Co. Ltd. 36
Town Food Co. 46
Townsend's Inc. 20
Toyo Oil Mills Co. Inc. 34
Tron Hermanos y Cia Sucrs. S.A. 37

U

Unigial Cristal 43
Unimills (Germany) 32,46
Unimills B.V. (Netherlands) 38,46,54,55
Union Deutsche Lebensmittelwerke GmbH 32
Unipol S.A. 32
Universal Robina Corp. 38,58

V

Ved Brat & Co., subsidiary of Reg. Soya Protein Ltd. 33,54,55
Verein Deutscher Oelfabriken 33
Vereinigte Fettwarenindustrie GmbH & Co. KG 43
Victory Soya Mills Ltd. 30,52,53,57
Vippy Solvex Products Private Ltd. 33

W

Walter Rau Neusser Oel und Fett AG 43
Wan-Jia-Shiang Brewery Co. Ltd. 54
Wei-Chuan Foods Corp. 54
West Bend Elevator Co. 22
West Central Co-op 21
West Tennessee Soya Mill Inc. 25
Wilhelm Connemann 32
Williams Foods Inc. 55
Wilson Foods Corp. 42
Worthington Foods Div., Miles Laboratories Inc. 47,51,54

Y

Yazoo Valley-Minter City Oil Mill Inc. 22
Yokkaichi Oil & Fats Co. Ltd. 35
Yoshihara Oil Mill Ltd. 35,36

soybean

update

an A.S.A. publication exclusively for members

EXCLUSIVE MARKETING NEWSLETTER

If your profession involves soybeans, SOYBEAN UPDATE is required reading. Here's why.

The latest worldwide soybean marketing information is brought to your mailbox every week, keeping you in constant touch with world markets.

UPDATE's editor is constantly gathering and analyzing complex soybean data, translating it into fully usable inputs for you.

Nothing else provides such concise, detailed and up-to-date soybean information.

How can you receive SOYBEAN UPDATE?
Contact: Membership
P.O. Box 27300
St. Louis, MO 63141

buyer's guide, alphabetical listing

A

ACLI International Commodity Services, Inc. ...110
AGT Inc. 82
Activated Metals & Chemicals Inc. 117
Barton Addison Sons Pty. Ltd. 111
Aeroglide Corp. 62,64,65,66
Ag-World Exports 96,106
Agri Science Laboratories Inc. 93
Agricol Corp. Inc. 99
Agricultural Chemicals Div., Mobay Chemical Corp. 78,82
Agricultural Chemicals Group, W.R. Grace & Co. 69,80
Agricultural Exports Inc. 107
Agricultural Laboratories Inc. 80
Air-Tech Industries Inc. 89
Alabama Testing Laboratories 93
Alcoa Steamship Co. Inc. 113
The Aldon Co. 113
Allied Chemical Corp., Agricultural Div. 69
Allis-Chalmers Corp. 65,68
Alpine American Corp. 77,104,111
Amchem Products Inc. 80
Amerada Hess Corp. 110
American Bulk Transport Co. 113
American Drying Systems, Inc. 61,64
American Drynamics, Inc. 64,66
American Farm Equipment Co. 64
American Lecithin Co. 107
American Lewa Inc. 125
American Soybean Association, SOYABEAN UPDATE 110
Anderson, Clayton & Co. 109
Anderson International Corp. 120,125
Appraisal Service Co. 111
Archer Daniels Midland Co. 106
Arizona Testing Laboratories 93
Asgrow Seed Co. 112
The Austin Co. 100,101,103,117
James A. Austin Co. 96
Automated Servo Control Inc. 82
Avco New Idea Farm Equipment Div., Avco Corp. 68

B

BASF Wyandotte Corp. 80
Bache Halsey Stuart Shields Inc. 96,98
Charles V. Bacon Inc. 93
Balfour-Maclaine International Ltd. 108
Barrow-Agee Laboratories Inc. 94
Barzen of Minneapolis Inc. 108
C-E Bauer 77
Hermann Bauermeister Maschinenfabrik GmbH 75,78,82,105,118,120,127
Cecil Bays & Associates 96
Bean Machines 82
Louis Bellatti 112
Bender-Ross Equipment Co. Inc. 91
Berico Industries 65
Best-Way Inc. 68
Bindicator Co. 80
R.W. Booker & Associates Inc. 104
Boots Hercules Agrochemicals Co. 78
Bordon Inc., Chemical Div., Smith-Douglas 70
Paul A. Boulo Inc. 105
Ross Brian & Associates Inc. ..101,103,117,121,127
Brooks & Evans Inc. 96
Browning Manufacturing Div., Emerson Electric Co. 85
Buhler Brothers Ltd. 120
Buhler-Miag Inc. 59,62,66,72,75 77,80,82,85,104,118,126
Bunge Corp. 108
Bunge Edible Oil Corp. 106
Burdick Aeration & Electronics Corp. 64,66,89
Burrows Equipment Co. .59,60,62,66,73,75,82,89,91

C

CVC Products 121,122
Cadur Trading Corp. 106
California Pellet Mill Co. 65,85
Calsicat Div., Mallinckrodt Inc. 117
Campbell Industries Inc. 65
Campro (Carnbrian Processes Ltd.) 103,105, 117,118,122,124,126,127

W.C. Cantrell Co. 126
Capital City Products Co. 109
Cargill Inc. 87,105,106,108,109
Cargill Investor Services Inc. 96
Carpenter-Wilkinson Co. 99
Carter-Day Co. 59,62,65,66,73,75,87
Carthage Creamery Co. 108
J.I. Case Co. 69
Central Soya 106
Centrico Inc. 121,126
The Chantland Co. 60,62,91
Charter Chemicals 129
Chase Bag Co. 60
Chase Metals Service Inc. 125
Chem-Staat Laboratory 94
Chemetron Process Equipment Div., Chemetron Corp. 115,121,124,127
Chesapeake & Ohio Railway Co. 113
The Chester Engineers Div., Mesta Machine Co. 102,105
Chevron Chemical Co., Agricultural Chemical Div. 70,78
A.E. Chew & Co. Inc. 108
Chicago Board of Trade 110
Chicago Eastern Corp. 64,87
Chipman Inc. 70
Ciba-Geigy Corp., Agricultural Div. 80
Clayton Brokerage Co. of St. Louis, Inc. 98
Cleary Trading Corp. 108
R. Clinton Construction Co. 87,100,104
Codema, Inc. 73
Coker's Pedigreed Seed Co. 113
Collateral Control Corp. 110
Commodity News Services 99
Commodity Research Bureau Inc. 110
Commodity Service Co. Inc. 98,101
ContiCommodity Services 96
Continental Grain Co. 105,106,109
Control Assemblies Co. 59
Conveyor Components Operations, Jeffrey Manufacturing Div. 64,73
Creason Corrugating & Machinery Co. Inc. 111
Crest Products Inc. 101,103
Crippen Manufacturing Co. Inc. 73
Croll-Reynolds Co. Inc. 125
Crow Sales Inc. 60,91
Crown Iron Works Co. 66,104,118,120,129
Curtis & Tompkins Ltd. 93

D

Dabney-Hoover Supply Co. 61,64,73,75,76,78,82,89,91,105
Dairyland Research International Div., Dairyland Seed Co. 113
Damman-Croes S.A. 60,67,73,75,78,118,120,129
Davenport Machine & Foundry Co. 66
David Manufacturing Co. 64,73
Davidson-Kennedy Co. 76,124
Davy Bamag GmbH 122
Dawson Food Ingredients Inc. Div., Dawson Mills 108
Daylin Laboratories Inc. 93
Dean Witter Reynolds Organization Inc. 96
Deep South Laboratory 93
John Deere 68
Delmhorst Instrument Co. 76
Desarrollo Industrial Ingenieros S.A. 100,105,117,118,121,122,124,129
Diamond Shamrock Corp., Agricultural Chemical Div. 70,80
Dickey Machine Works 67
DICKEY-john Corp. 68,70,75,89
Diktic Inc. 101
Divine Engineering Inc. 62
Dodge Div., Reliance Electric Co. 60,85
Doty-Wilhoit Laboratories Inc. 94
Drake Petroleum Co. 129
Dravo Corp. 100,118,120,121,122,124,127
Louis Dreyfus Corp. 106
Driall Inc. 64
E.I. Du Pont de Nemours & Co. Inc. 70,78
DuMond Co. Inc. 117
Dunbar Kapple 61
Durkee Foods Div., SCM Corp. 106,107,109
Du-Val I.F.T. Corp. 105,118
T. Paul Dwyer 102

E

EMI CORP. 59,100,101,103,115,117,120,121,122,124,126,127,129
The Early & Daniel Co. 110
Ecological Products Ltd. 69,80
Edible Soy Products Inc. 107
Elanco Products Co. 78
Electrical Engineering & Equipment Co. 60,61,62,67,72,85,87,104
Engineered Systems Operations, Jeffrey Manufacturing Div. 67
Entoleter Inc. 73,76,127
Erdco Engineering Corp. 120
Experience Inc. 102
Extraction de Smet S.A. 105,115,118,120,121,122,124,126,127,129
Extraktion-Stechnik 105,118,120,124
Extron Co. 104
Exxon Co. 129

F

FMC Corp. 60,61
Fairbanks Weighing Di , Colt Industries 91
W. R. Fairchild Construction Co. Ltd. 125
The Falk Corp. 85
Farm Fans Inc. 65,67,72,73
Farmer City Grain Co. 106
Farmers Export Co. 107
Farmrite Sprayer, Inc. 89
Fazenda Boa Fe 113
Fearn Soya Foods 106
Feeco International Inc. 64,66,73,105,126
Ferrell-Ross 59,62,65,72,75,77,111
Feterl Manufacturing Co. 64,75
Finch Feed & Grain Co. 98
Dave Fischbein Co. 60
Flavor Tree Foods Inc. 106
Flexible Steel Lacing Co. 62
Food Ingredients, Inc. 101
Formula IV Ltd. 93
Forsbergs Inc. 59,75
Fort Worth Steel & Machinery Div. Houdaille Ind. 61,64,67,73,85
Foss America Inc. 70,76,89,125

C.B. Fox Co. 107
Fox Testing Laboratories 94
The Foxboro Co. 120
French Oil Mill Machinery Co. 100,102, 105,118,120,124
Fried, Krupp 117,118,120,122,124

G

Gandy Co. 68
General Splice Corp. 62
Getty Refining and Marketing Co., Solvents unit 129
Getz Brothers Co. Inc. 106
Glenco Plant, Portable Elevator Div. 68
Globe Engineering Co. 100,103
Gold Kist Inc. 106
George W. Gooch Laboratories Ltd. 93
Grain Instant News, Commodity News Service Inc. 99
Grain Processing Corp. 107
Granja Alegre Ltda. 113
Great Plains Bag Corp. 60
Greif Brothers Corp. 60
Guillory Sales Inc. 99
Gulf Research & Development Co. Div., Gulf Oil Corp. 115,129
Gurley's Inc. 109
Gustafson, Inc. 59,70

H

H.L.S. Ltd 105,117,118,120,121,122,124, 126,127,129
Hagan Manufacturing Co. 64,65,75,76,78,82,85, 89,91,105
Hagie Manufacturing Co. 89
Hahn Laboratories 94
Hans Vetter Maschinenfabrik 64
The Harshaw Chemical Co. 117
Hart-Carter Co. 68
Jacob Hartz Seed Co. Inc. 113
Harvestall Industries Inc. 65,87
Hasselman Brokerage Co. Inc. 98,109
Hayes & Stolz Industrial Manufacturing Co. Inc. 59,64,75
Henkel Corp. 98
Hennessy & Associates 96
Honeywell, Process Control Div. 120
Houston Laboratories Inc. 94
Howard Rotavator Co. 68
Howe Richardson Scale Co. 60,91
S. Howes Co. Inc. 59,60,75,77,85,91
J.M. Huber Corp. 124
Huntley Manufacturing Co. 75

I

Inari, Ltd. 108
Industrial Commodity Corp. 110
Industrial Laboratories 94
Industry General Corp. 105
Insta-Pro Div., Triple "F", Inc. 82
Intercontinental Associates Inc. 106
International Harvester 68
International-Matex Tank Terminals 110
International-Stanley Corp. 59,73,91
International Voluntary Services Inc. 111
Intoco, Inc. 111
Iowa Testing Laboratories Inc. 93
Charles Isdale & Associates, Inc. 100,103 117,124,126,127
Italmecanica Ltda. Industria e Comercio de Maquimas e Equipamentos 126
Italtecnia Ltda. Assessorias e Projetos Industrials 103,105
C. Itoh & Co. 109

J

Jacobson Machine Works Inc. 77,80
Jaham Manufacturing Co. Inc. 59
Jennings Laboratories Inc. 94
Jensen Mills 77
Johns-Manville 115

K

K.I.D. Inc. 109
Kalo Laboratories Inc. 70,82
Peter Kalustian Associates Inc. 102
W.J. Kamp & Co. 98
Kappele, Wright & MacLeod Ltd. 103
Franz Kirchfeld GmbH KG 105,117,121,122,124
Kuss Corp. 65

L

Lakeland Engineering Equipment Co. 61,62, 73,82,85
The Landis Co. Inc. 99
Langston Companies Inc. 60
Laucks Testing Laboratories Inc. 94
Law & Company 93
Lawrence Systems Inc. 110
Leffingwell Chemical Co. Div., Thompson-Hayward Chemical Co. 69
Lely Independence Manufacturing Inc. 68,85,89
Logan-Hughston Co. Inc. 99
Lou Ana Foods, Inc. 108
J.E. Love Co. 68
Lurgi Corp. 104
Lurgi Umwelt und Chemotechnik GmbH 105, 118,124
Lykes Brothers Steamship Co. Inc. 113
Lynch Manufacturing Co. Inc. 68

M

MCC Powers-Fiat 89,120
M & E Construction Engineers 100,103
M.F.A. Grain Marketing Div., Missouri Farmers Association Inc. 108
M & W Gear Co. 68
Machinefabriek Brabant D.V. Opstal B.V. 64,73, 75,89
Machinery Development Inc. 61
Malt-O-Meal Co. 108
Manufacturers Maintenance Service, Inc. 64,73, 75,100
Martin Engineering Co. 72,91
Marubeni America Corp. 109
Marwood Co. 106

Masiero Industrial S.A. 111,122,129
Massey-Ferguson Inc. 68
Material Handling Systems Div.,
FMC Corp. 66,67,91
Mathews Co. 64
Matthes & Porton 99
Matthes & Porton (U.S.A.) 98
Mayer-Gelbort Inc. 96
Mayrath Industries Inc. 62
Davy McKee & Co. 100,103,117,122,126
McNair Seed Co. 113
Merrick Scale Manufacturing Co. 91
Merrill Lynch, Pierce, Fenner & Smith Inc. 96
The Metalcrete Manufacturing Co. 82
Mico Inc. 106
Midamerica Commodity Exchange 110
Mid-America Products Inc. 64
Midwest Oilseeds Inc. 112
Midwest Soya International Inc. 102,107
MikroPul Corp. 66
Mineral Research & Development Corp. 70
Minneapolis Grain Exchange 110
Mix-Mill Inc. 82
Modern Process Equipment Inc. 76
Monsanto Co. 69,78
N. Hunt Moore & Associates Inc. 75,78
102,105,111,126,129
Motomco Inc. 76,82
Muskogee Iron Works Inc. 89
The F.E. Myers Co. Div.,
McNeil Corp. 89
Myers Engineers 101,103

N

Nadustco Inc. 62,66,67
The Nellis Feed Co. 98
Neotec Instruments Inc. 70
Neumunz Inc. 59,104,118,121,124,125,129
New Jersey Feed Laboratory Inc. 94
New-Age Foods Study Center 111
Newell Machinery Co. 60,61,62
67,72,82,85
The Nitragin Co., Inc. 80
Noble Div., Royal Industries 68
North American Plant Breeders 80,112
Northrup, King & Co. 112,113
J. W. Nutt Co. 96

O

Occidental Chemical Co. 70,80
Oil World 111
The Old Mill Co. 75,82
Olin Corp. 70
Oliver Manufacturing Co. Inc. 73

P

POS Pilot Plant Corp. 96,103,111
PPG Industries Inc. 80
PSI Pocess Systems Inc. 60,100,103,105,118
PVO International Inc. 106,117
Pacific Grain Co. 106
Pacific Trading Co. 96
Paine, Weber, Jackson & Curtis Inc. 96
Pan American Laboratories 94
The Partlow Corp. 82,91
Pattisons Laboratories Inc. 94
Peavey Co. 98,108,113
Peterson Manufacturing Co. Inc. 68
Peterson Soybean Seed Div.,
Pioneer Hi-Bred International Inc. 112
Pfizer Genetics 112
Phelps Dodge Refining Corp. 69,70
Phelps Machinery Co. Inc. 91
Phillips Chemical Co. 129
The Pillsbury Co.,
Feed Ingredients Div. 98,108
Pioneer Manufacturing Co. 89
A. & L. Plains Agricultural
Laboratories Inc. 94
Polser Exports Inc. 109
Ponndorf Maschinenfabrik GmbH 66
Pope Testing Laboratories 94
Port of Houston 110
Port of Lake Charles 110
Port of New Orleans 110
Portable Elevator Division 72
Power Transmission Div.,
Dresser Industries Inc. 61,85
Prater Industries 73,77,85
Prater/Bauermeister Inc. 72,77
Precision Roll Grinders Inc. 77
Processing Equipment Operations,
Jeffrey Manufacturing Div. 77
Proform Inc. 89,104,113
Pullman Leasing Co. 113
Pullman Standard 113
Pulverizing Machinery Div.,
MikroPul Corp. 77,102,111

Q

Quality Control Equipment Co. 59

R

J. Rakosky Services 101
Ralston Purina Co. 106,107
Rank Precision Industries Inc. 75
Reed-Joseph Co. 62,67,89,100
Reuters 100
Revere Corp. of America 91
Rhino Sales Corp. 72
Rhone-Poulenc Inc.,
Agricultural Div. 78
Riceland Foods 105
W.L. Richeson & Sons Inc. 107
Ring Around Seed 112
Robertson Terminals Inc. 110
George A. Rolfes Co. Inc. 64,66,89
Julius Van Roosendaal 99
Roskamp Manufacturing Inc. 76
Ross & Rowe Div.,
Archer Daniels Midland Co. 106
Rotex Inc. 75,87
Ruff's Seed Farms 113
The Rust Engineering Co. 103,117,121,122

S

SGS Control Services Inc. 94
S & W Construction Co. 100

W.W. Saint Co. 96
L.P. Sales Co. 98
Sandoz Inc. 78
Scandura Inc. 61
Schokhi Industrials PVT, Ltd. 109
Schouten International Inc. 108
Screw Conveyor Corp. 62,66,91
Seaman, de Ryss Inc. 98
Seedburo Equipment Co. 59,60,62,66 73,75,82,89,91
Seedmakers Inc. 112
V.R. Seeds Inc. 112
Seton Name Plate Corp. 82
Setre Inc. 80
Shannon Tractor Co. 68
Shearson Hayden Stone Inc. 98
Shedd's Food Products 106,108,109
Shell Chemical Co. 78
Sherex Chemical Co., Inc. 122
Shipco Inc. 108
Siegling America Inc. 61
Sikes Machine Shop 64,78,120
W.M. Simeral & Co. Inc. 98
Simon-Rosedowns Ltd. 100,105,117 118,120,122,124,126,127,129
Smico Inc. 59,60,66,73,75,87,91
Smith Farms 68
Smith Industries Inc. 89
South Louisiana Laboratories Inc. 93
Southern Testing Laboratories 93
Southland Oil Terminal Co. 109
Southwell Laboratory 94
Southwestern Laboratories 94
Soybean Research Foundation Inc. 112
Soy-Cot Sales Inc. 98
Soycrafters Association of North America 111
SOYPRO International, Inc. 102,104,117,127
Soypro of Iowa, Inc. 100
Speed King Manufacturing Co. Inc. 62,68,72,91
Sperry New Holland 68
Sprout-Waldron Div., Koppers Co. Inc. 62,66 67,73,77,85,87,89,105,111,126
A.E. Staley Manufacturing Co. 106
Stauffer Chemical Co. 70,78
Stone Construction Equipment Inc. 62
Stonehard Inc. 73
Stork-Amsterdam B.V. 126
Straight Engineering Co. 91
Sud-Chemie AG 117
Suggs & Co. Ltd. 109
Sullivan Systems Inc. Div., The DeLaval Separator Co. 115,121,124,126,127,129
Superior Welding Co. 65,124
Sureco 82
Sweco Inc. 73

T

Tabor Grain Co. 106
Tecator, Inc. 81
Technicon Industrial Systems 72
Tenco Hydro Inc. 93,101,124
Terral-Norris Seed Co. Inc. 112
Tetko Inc. 85
Texas Testing Laboratories 94
Thionville Inspetora de Cargas e Analisa Ltd. 94,103
Thionville Laboratories 94
Thionville Surveying Co. B.V. 96,103
Thionville Surveying GmbH 96,103
Thomas Conveyor Co. Inc. 64
Thompson-Hayward Chemical Co. 78
Tokheim Co. 125
Top-Farm Products Co. 113
Toshoku America Inc. 109
Tramco Metal Products Co. 62
Trazco Inc. 69,80
Triple/S Dynamics Inc. 64,73,75,76
Twin City Machine Co. 77,111
The Twining Laboratories Inc. 93
D.W. Tyler Co. 72,73

U

U.S. Rail Services Inc. 113
USS Agri-Chemicals 69,70,78,80
Union Chemicals Div., Union Oil Co. of CA 129
Union Iron Co. 60,62,85
Uniroyal Chemical 70,78
United Catalysts Inc. 117
United States Borax & Chemical Corp. 78
Universal Industries 62
Universal Robina Corp. 126,129
The Urbana Laboratories 80
Urschel Laboratories Inc. 124

V

Ved Brat & Co., Subsidiary of Reg. Soya Protein Ltd. 109

W

Weather Trends Inc. 110
Webco Tank Inc. 89
Weil Service Products Corp. 85
Wellens & Co., Inc. 108
Wenger International Inc. 125
Werthan Industries Inc. 60
Wesmar Industrial Systems Div. 103
Wesmar Level Monitor Div. 73,82
West Chemical Products Inc. 66,70,80
Western-Commercial Transport Inc. 113
Westfalia Separator AG 127
Westvaco Corp., Chemical Div. 122
Wheelabrator-Frye Inc. 66
White Farm Equipment Co. 69
Wilken Seeds Inc. 113
H.R. Williams Mill Supply 66,85
K.I. Willis Corp. 66
Woodson-Tenent Laboratories 93,94
Woodward & Dickerson Inc. 109
Wurster & Sanger Inc. 101,103,115,117, 120,121,122,124,126,127,129
The Wyatt Manufacturing Co. Inc. 62,82,91

Y

Year-A-Round Cab Corp. 68

Z

Albert H. Zetzsche 99

index to advertisers

American Drynamics, Inc. 76
Archer Daniels Midland Co. 3
ASA, General Sales 130,164
Barzen of Minneapolis Inc. 98
Berico Industries 63
Buhler-Miag Inc. 92
Bunge Corp. 26
Cambrian Processes, Ltd. 116
Cargill Inc. 71
Chemetron Corp. 123
Continental Grain Co. 97
Crippen Manufacturing Co. Inc. 65
Crown Iron Works Co. 128
Dammon-Croes 61
Davenport Machine & Foundry Co. 83,84
Dawson Food Ingredients Inc. 52
Divine Engineering Inc. 79
Dravo Corp. ....Inside Back Cover
Louis Dreyfus Corp. 23
DuMond Co. Inc. 121
EMI Corp. 119
Erdco Engineering Corp. 125
Farmer City Grain Co. 107
Food Protein Council 44
French Oil Mill Machinery Co. 81
Jacob Hartz Seed Co. Inc. 114
Henkel Corp. 102
Honeymead Products Co. 48
S. Howes Co. Inc. 72
International-Matex Tank Terminals 95
Kappele, Wright & MacLeod Ltd. 104
Lucas Meyer ....Inside Front Cover
Mico Inc. 104
Midwest Soya International Inc. 112
National Soybean Processors Assn. ....Back Cover
The Nellis Feed Co. 111
Ponndorf Maschinenfabrik GmbH 88
Prater Industries 69,77
Prater/Bauermeister Inc. 87
Julius Van Roosendaal 108
Roskamp Manufacturing Inc. 67
Ross & Rowe 56
Rotex Inc. 74
Schouten International Inc. 101
Simon-Rosedown 6
Soy Oil 18
Soybean Digest 86
Soybean Update 180
Tramco Metal Products Co. 90
Wenger International Inc. 4
Woodson-Tenent Laboratories 99

EDITORIAL STAFF

Melissa Kennedy—**Editor**
Arleen Dobkin—**Editorial assistant**
Linda Madl—**Editorial assistant**
Dr. Parry Dixon—**Statistical consultant**

BUSINESS STAFF

(314) 432-1600

Don Evashenko—**General Manager**
Ann Landry—**Advertising Coordinator**
Gerald Boschert—**Art Director**
Denis Kloppenburg—**Prod. Manager**
Larry Krueger—**Circulation & Sales**

777 Craig Road P.O. Box 27300,
St. Louis, MO 63141

We know the oilseed industry so well we even invented some processes for it.

Over 30 years ago we knew that the oilseed processing industry needed a product like the Rotocel® extractor. But there wasn't one. So we designed and built it ourselves. Now it has a number of imitators.

But inventing the Rotocel was just one way we put our knowledge of the industry to work.

Another way is through the special skills we offer you. We can design, engineer, and build your next oilseed project. Because we understand all the areas of oilseed processing.

From preparation through solvent extraction. Meal finishing. Proteins, concentrates and isolates. Oil finishing. Hydrogenation. Deodorizing. Fat splitting.

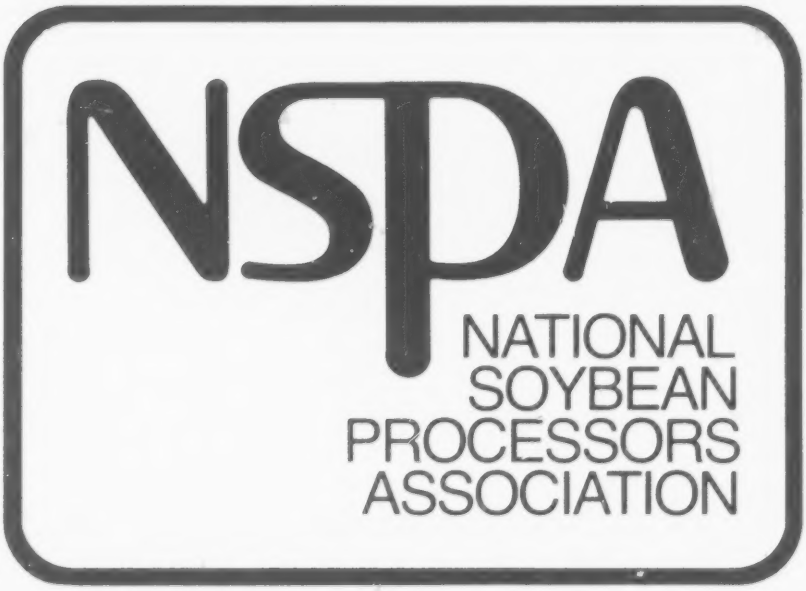
From design through construction, Dravo knows oilseed processing. We have received over 25 patents on equipment and processes for oilseed processing alone. So we can invent ways to help you.

For more information, call or write Chemical Plants Division, Dravo Corporation, One Oliver Plaza, Pittsburgh, Pa. 15222. (412) 566-3655.

Turning ideas into reality.

Dravo

We're The Biggest Customer Of America's Soybean Growers



Half the nation's beans are processed right here at home by the members of NSPA. We're dedicated to providing superior quality American soybean meal and soybean oil.

We depend on the prosperity of U.S. soybean farmers, whose partnership we prize and whose future we believe in.

National Soybean Processors Association
1800 M Street, N.W.
Washington, D.C. 20036
Telephone: 202/452-8040
Telex: 89-7452